



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SBI PO Prelims Memory Based Paper (Held On: 18 December 2022 Shift 1)

Total Time: 1 Hour

Total Marks: 100

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks	Sectional Timing
1	English Language	30	30	0.25	1	20 Min
2	Quantitative Aptitude	35	35	0.25	1	20 Min
3	Reasoning Ability	35	35	0.25	1	20 Min

- 1.) A total of 60 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

English Language

1. Directions: Read the passage given below and answer the questions that follow by choosing the correct/most appropriate options: (+1, -0.25)

The advent of 5G technology has revolutionized connectivity, promising lightning-fast speeds and seamless communication. However, ensuring its efficacy and reliability within the confines of an airplane presents unique challenges. This RC aims to explore the feasibility and potential benefits of implementing a robust 5G network for passenger mobile usage during flights.

In order to achieve a viable solution, stakeholders in the aviation industry must come together to hammer out a comprehensive plan. Airlines, telecommunication providers, and regulatory bodies need to collaborate closely to address technical obstacles and guarantee passenger safety. One key aspect is to **concede** that cellular signals pose no threat to the aircraft's avionics. Extensive research and stringent testing protocols should be implemented to alleviate concerns and provide unequivocal evidence.

Another vital element is securing agreements with telecom companies to establish reliable 5G infrastructure that caters specifically to in-flight usage. These agreements should focus on optimizing network coverage, minimizing signal interference, and maximizing bandwidth capacity. Additionally, international cooperation and harmonization of regulations will be crucial to ensure seamless connectivity across different airspace jurisdictions.

By **hammering out** the intricate details, all parties involved can **agree** upon standardized guidelines and protocols for the use of mobile devices during flights. *This will enhance the passenger _____, enabling them to stay connected and productive throughout their journey while simultaneously respecting safety and security regulations.*

Implementing a 5G network for passenger mobile usage in airplanes requires collective efforts, with stakeholders conceding potential concerns and agreeing on effective solutions. A seamless and reliable 5G network

can be developed by working out the technical details while establishing solid partnerships, improving the in-flight experience for passengers, and creating a new standard for connection in the aviation industry.

Which of the following is a **synonym** for the word "**concede**"?

- a. Refute
- b. Concur
- c. Deny
- d. Oppose
- e. Challenge

2. Directions: Read the passage given below and answer the questions that follow by choosing the correct/most appropriate options: (+1, -0.25)

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Which of the following is an **antonym** for the word "**agree**"?

- a. Disagree
- b. Consent
- c. Concur
- d. Harmonize
- e. Support

3. Directions: Read the passage given below and answer the questions that follow by choosing the correct/most appropriate options: (+1, -0.25)

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What is the purpose of implementing extensive research and stringent testing protocols, as mentioned in the passage?

- a. To confirm that cellular signals are a threat to the aircraft's avionics
- b. To disregard concerns related to cellular signals in airplanes
- c. To ensure passenger safety by addressing concerns and providing evidence
- d. To create obstacles and hinder the implementation of 5G in airplanes
- e. To promote the use of mobile devices during flights without any limitations

4. Directions: Read the passage given below and answer the questions that follow by choosing the correct/most appropriate options: (+1, -0.25)

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What is one of the challenges in ensuring the efficacy and reliability of 5G within an airplane?

- a. Regulatory compliance
- b. Network optimization
- c. Signal interference
- d. International cooperation
- e. Passenger safety

5. **Directions: Read the passage given below and answer the questions that follow by choosing the correct/most appropriate options:** (+1, -0.25)

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What is one of the key elements in securing agreements with telecom companies for in-flight 5G infrastructure?

a. Airspace jurisdictions

- b. Regulatory bodies
- c. Signal interference
- d. Telecommunication providers
- e. Harmonization of regulations

6. Directions: Read the passage given below and answer the questions that follow by choosing the correct/most appropriate options: (+1, -0.25)

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What does the phrase "**hammering out**" mean in the given passage?

- a. Physically using a hammer to construct something
- b. Intensely discussing and negotiating to find a workable solution
- c. Hammering a point repeatedly to emphasize its importance
- d. Engaging in a physical activity to relieve stress after negotiations
- e. Demonstrating determination and perseverance through the use of a hammer

7. Directions: Read the passage given below and answer the questions that follow by choosing the correct/most appropriate options: (+1, -0.25)

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What should the agreements with telecom companies primarily focus on, according to the passage?

- a. Reducing network coverage to minimize signal interference
- b. Limiting bandwidth capacity to ensure stable connections
- c. Establishing partnerships with non-telecom companies
- d. Optimizing network coverage, minimizing signal interference, and maximizing bandwidth capacity

- e. Increasing signal interference to test the reliability of the 5G network

8. Directions: Read the passage given below and answer the questions that follow by choosing the correct/most appropriate options: (+1, -0.25)

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What will fit in the blank taken from the passage "This will enhance the passenger _____, enabling them to stay connected and productive throughout their journey while simultaneously respecting safety and security regulations."

- a. Experience
- b. Satisfaction
- c. Connectivity
- d. Efficiency
- e. Enjoyment

9. Directions: In the given sentence, three words are marked as (A), (B), and (C). These words may or may not be placed in their right places. For options with different arrangements of these words are given below, mark the option with the correct arrangement as your answer. If no change is required mark 'No rearrangement required' as your answer. (+1, -0.25)

When the **anticipation(A)** was about to announce the winner of the best actor award an **host(B)** of **atmosphere(C)** vibrated through the crowd.

- a. ACB
- b. CAB
- c. BCA

- d. BAC
- e. No rearrangement required

10. Directions: In the given sentence, three words are marked as (A), (B), and (C). These words may or may not be placed in their right places. For options with different arrangements of these words are given below, mark the option with the correct arrangement as your answer. If no change is required mark 'No rearrangement required' as your answer. (+1, -0.25)

Kolkata, with one the **largely**(A) road space among the metropolis of the country, is **fast**(B) dependent on metro railway services for **lowest**(C) movement of passengers.

- a. ACB
- b. CBA
- c. BAC
- d. CAB
- e. No rearrangement required

11. Directions: In the given sentence, three words are marked as (A), (B), and (C). These words may or may not be placed in their right places. For options with different arrangements of these words are given below, mark the option with the correct arrangement as your answer. If no change is required mark 'No rearrangement required' as your answer. (+1, -0.25)

No country can go far if a **invested**(A) proportion of its population is illiterate, unhealthy, or malnourished, all the **significant**(B) that are developed today c **ountries**(C) well in education, health, and nutrition.

- a. ACB

- b. BCA
- c. BAC
- d. CBA
- e. No rearrangement required

12. Directions: In the given sentence, three words are marked as (A), (B), and (C). These words may or may not be placed in their right places. Four options with different arrangements of these words are given below, mark the option with the correct arrangement as your answer. If no change is required mark 'No rearrangement required' as your answer. (+1, -0.25)

If you suspect that 21st-century **technology**(A) has broken your brain, it will be **reassuring**(B) to know that **attention**(C) spans have never been what they used to be.

- a. CAB
- b. CBA
- c. ACB
- d. BAC
- e. No rearrangement required

13. Directions: In the given sentence, three words are marked as (A), (B), and (C). These words may or may not be placed in their right places. Four options with different arrangements of these words are given below, mark the option with the correct arrangement as your answer. If no change is required mark 'No rearrangement required' as your answer. (+1, -0.25)

Power is **accessible(A)** for everyday operations in almost every **essential(B)** of modern life and power engineers help ensure that this power is **facet(C)** to people.

- a. BAC
- b. BCA
- c. CAB
- d. CBA
- e. No rearrangement required

-
14. Directions: In the given sentence, three words are marked as (A), (B), and (C). These words may or may not be placed in their right places. Four options with different arrangements of these words are given below, mark the option with the correct arrangement as your answer. If no change is required mark 'No rearrangement required' as your answer. (+1, -0.25)

The presence of foreign **competition(A)** in India will bring in an element of **quality(B)** and increase the standards and **universities(C)** of Indian institutions.

- a. CAB
 - b. CBA
 - c. ACB
 - d. BAC
 - e. No rearrangement required
-

15. Directions: Given below is a word, followed by three sentences that consist of that word. Identify the sentence(s) that express(es) the meaning of the word. (+1, -0.25)

DEFY

- A. The brave young woman decided to **defy** the rules and pursue her dreams.
- B. His actions openly **defied** the authority of the government.
- C. The officer was convicted for refusing to **defy** orders

- a. Only A
- b. Both A and B
- c. Only B
- d. Both B and C
- e. Only C

16. Directions: Given below is a word, followed by three sentences that consist of that word. Identify the sentence(s) that express(es) the meaning of the word. (+1, -0.25)

HANDLE

- A. She carefully held the **handle** of the door.
- B. The detective found a crucial piece of evidence with his keen **handle** on the case.
- C. He couldn't **handle** the pressure and decided to quit.

- a. Only A

- b. Both B and A.
- c. Only B
- d. Both B and C
- e. All of the Above

17. Which of the phrases given in the options should replace the word/phrase that is underlined in the sentence to make it grammatically correct? if the sentence is correct as it is given and no correction is required, select 'No correction required' as the answer. (+1, -0.25)

Hardly had the peoples reached Mumbai then they were ordered to return to Delhi.

- a. the peoples reached Mumbai then
- b. the peoples reached Mumbai than
- c. the people reached Mumbai when
- d. the people's reached Mumbai when
- e. No correction required

18. Which of the phrases given in the options should replace the word/phrase that is underlined in the sentence to make it grammatically correct? if the sentence is correct as it is given and no correction is required, select 'No correction required' as the answer. (+1, -0.25)

The cost of medical care in this country is very high that they had to sell their land to pay for it.

- a. is quite high and

- b. too high for
- c. so high but
- d. more high
- e. no correction required

19. Which of the phrases given in the options should replace the word/phrase that is underlined in the sentence to make it grammatically correct? if the sentence is correct as it is given and no correction is required, select 'No correction required' as the answer. (+1, -0.25)

BJP is the country's only political party with a trained political human resource, which will serve as the backing bone in the organization's workforce in the coming years.

- a. the backing bone of the organization's
- b. the backbone in the organization's
- c. the backbone of the organization's
- d. the backbones of the organization's
- e. No correction required

20. Rearrange the following five segments (A), (B), (C), (D) and (E) in the proper sequence to form a meaningful paragraph; then answer the questions given below them. (+1, -0.25)

A. NPCIL is a dividend-paying company with the highest credit rating of AAA by CRISIL and CARE

B. At present, NPCIL operates 22 nuclear power reactors with an installed capacity of 6780 MW.

C.NPCIL is responsible for siting, design, construction, commissioning and operation of nuclear power reactors.

D.Nuclear Power Corporation of India Limited (NPCIL), formed in 1987, is a Public Sector Enterprise under the administrative control of Department of Atomic Energy (DAE).

E. Safety is given overriding priority in all facets of nuclear power reactors.

Which is the **first** sentence according to the paragraph?

a. A

b. B

c. C

d. D

e. E

-
21. Rearrange the following five segments (A), (B), (C), (D) and (E) in the proper sequence to form a meaningful paragraph; then answer the questions given below them. (+1, -0.25)

A. NPCIL is a dividend-paying company with the highest credit rating of AAA by CRISIL and CARE

B.At present, NPCIL operates 22 nuclear power reactors with an installed capacity of 6780 MW.

C.NPCIL is responsible for siting, design, construction, commissioning and operation of nuclear power reactors.

D.Nuclear Power Corporation of India Limited (NPCIL), formed in 1987, is a Public Sector Enterprise under the administrative control of Department of Atomic Energy (DAE).

E. Safety is given overriding priority in all facets of nuclear power reactors.

Which is the **second** sentence according to the passage?

- a. A
- b. B
- c. C
- d. D
- e. E

22. Rearrange the following five segments (A), (B), (C), (D) and (E) in the proper sequence to form a meaningful paragraph; then answer the questions given below them. (+1, -0.25)

A. NPCIL is a dividend-paying company with the highest credit rating of AAA by CRISIL and CARE

B. At present, NPCIL operates 22 nuclear power reactors with an installed capacity of 6780 MW.

C. NPCIL is responsible for siting, design, construction, commissioning and operation of nuclear power reactors.

D. Nuclear Power Corporation of India Limited (NPCIL), formed in 1987, is a Public Sector Enterprise under the administrative control of Department of Atomic Energy (DAE).

E. Safety is given overriding priority in all facets of nuclear power reactors.

Which is the **third** sentence according to the paragraph?

- a. A
- b. B

c. C

d. D

e. E

23. Rearrange the following five segments (A), (B), (C), (D) and (E) in the proper sequence to form a meaningful paragraph; then answer the questions given below them. (+1, -0.25)

A. NPCIL is a dividend-paying company with the highest credit rating of AAA by CRISIL and CARE

B. At present, NPCIL operates 22 nuclear power reactors with an installed capacity of 6780 MW.

C. NPCIL is responsible for siting, design, construction, commissioning and operation of nuclear power reactors.

D. Nuclear Power Corporation of India Limited (NPCIL), formed in 1987, is a Public Sector Enterprise under the administrative control of Department of Atomic Energy (DAE).

E. Safety is given overriding priority in all facets of nuclear power reactors.

Which is the fourth sentence according to the paragraph?

a. A

b. B

c. C

d. D

e. E

24. Rearrange the following five segments (A), (B), (C), (D) and (E) in the proper sequence to form a meaningful paragraph; then answer the questions given below them. (+1, -0.25)

A. NPCIL is a dividend-paying company with the highest credit rating of AAA by CRISIL and CARE

B. At present, NPCIL operates 22 nuclear power reactors with an installed capacity of 6780 MW.

C. NPCIL is responsible for siting, design, construction, commissioning and operation of nuclear power reactors.

D. Nuclear Power Corporation of India Limited (NPCIL), formed in 1987, is a Public Sector Enterprise under the administrative control of Department of Atomic Energy (DAE).

E. Safety is given overriding priority in all facets of nuclear power reactors.

Which is the fifth sentence according to the paragraph?

a. A

b. B

c. C

d. D

e. E

25. Read the sentence below to find out if there is any error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error the answer is (5). (Ignore errors in punctuation if any). (+1, -0.25)

Their most significant gains **(A)**/
have been in the north half of the country, **(B)**/
a traditional stronghold of the U.S. allied **(C)**/ warlords who
helped defeat them in 2001 **(D)** / No Error **(E)**

- a. A
- b. B
- c. C
- d. D
- e. E

-
26. Read the sentence below to find out if there is any error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error the answer is (5). (Ignore errors in punctuation if any). (+1, -0.25)

Policies and plans pertaining to transport **(A)** / and mobility, shelter and **(B)** / social infrastructure was also **(C)** / discussed at the webinar held on Tuesday. **(D)** / No Error **(E)**

- a. A
- b. B
- c. C
- d. D
- e. E

27. Read the sentence below to find out if there is any error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error the answer is (5). (Ignore errors in punctuation if any). (+1, -0.25)

The protesters will reach designated (A) / public locations by any (B) / means of transport including scooters, (C) / motorcycles, tractor, car, buses, truck. (D) / No error (E)

- a. A
- b. B
- c. C
- d. D
- e. E

28. Read the sentence below to find out if there is any error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error the answer is (5). (Ignore errors in punctuation if any). (+1, -0.25)

After a drastically fall in demand for (A) / air travel from March onwards due (B) / to the second wave of COVID19, there is (C) / now a steady rise in the number of daily passengers. (D) / No Error (E)

- a. A
- b. B
- c. C
- d. D

e. E

-
29. Read the sentence below to find out if there is any error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error the answer is (5). (Ignore errors in punctuation if any). (+1, -0.25)

Several ministry have **(A)** / been clubbed **(B)** / together, sources say, **(C)** / to increase synergy. **(D)** / No error **(E)**

a. A

b. B

c. C

d. D

e. E

-
30. Read the sentence below to find out if there is any error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error the answer is (5). (Ignore errors in punctuation if any). (+1, -0.25)

While the expansion of **(A)** / the road and railway **(B)** / network there has been **(C)** / subject to many debate **(D)** / No error **(E)**

a. A

b. B

c. C

d. D

e. E

prepp

Your Personal Exams Guide

Quantitative Aptitude

31. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer. (+1, -0.25)

I. $x^2 - 13x + 40 = 0$

II. $y^2 - 13y + 42 = 0$

- a. $x > y$
- b. $x < y$
- c. $x \geq y$
- d. $x \leq y$
- e. $x = y$ or relation between them cannot be established

32. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer. (+1, -0.25)

I. $x^2 + 8x + 12 = 0$

II. $y^2 + 14y + 24 = 0$

- a. $x > y$
- b. $x \geq y$
- c. $x < y$
- d. $x \leq y$
- e. $x = y$ or relationship between x and y cannot be established

33. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer. (+1, -0.25)

I. $x^2 - 9x + 18 = 0$

II. $y^2 - 15y + 56 = 0$

- a. $x > y$
- b. $x \geq y$
- c. $x < y$
- d. $x \leq y$
- e. $x = y$ or relationship between x and y cannot be established

-
34. In the given question, two questions numbered I and II are given. Solve both the equations and mark the appropriate answer. (+1, -0.25)

I. $x^2 - 35x + 124 = 0$

II. $y^2 + 21y - 130 = 0$

- a. $x > y$
- b. $x < y$
- c. $x \geq y$
- d. $x \leq y$
- e. $x = y$ or relation between x and y can't be established.

35. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer. (+1, -0.25)

I. $4x^2 + 18x + 20 = 0$

II. $3y^2 + 24y - 60 = 0$

- a. $x < y$
- b. $x > y$
- c. $x \leq y$
- d. $x \geq y$
- e. No relation in x and y or $x = y$

-
36. The Honda company reduces the number of its worker in the ratio 7 : 4 and increases their wages in the ratio 3 : 5 then find the ratio of the company's expenditure on total wages previously and now. (+1, -0.25)

- a. 21 : 20
- b. 20 : 21
- c. 4 : 5
- d. 5 : 4
- e. None of these

-
37. In a bank the average salary of all the Staff is Rs. 600. The average salary of all 12 officers is Rs. 4000 and the average salary of the rest Staff is Rs. 560. Find the number of rest of the staff in the bank. (+1, -0.25)

- a. 1020
- b. 1000
- c. 1100
- d. 1120
- e. None of these

38. Saurabh bought 45 kg tea at Rs. 140 per kg and 40 kg at Rs. 155 per kg. He mixed the two. Now at what price (app) per kg he should sell so that he may get 20% on this loss? (+1, -0.25)

- a. Rs. 118
- b. Rs. 120
- c. Rs. 115
- d. Rs. 123
- e. Rs. 113

39. A and B can do a piece of work 18 days and 24 days respectively. Both started the work together but A left after 6 days and C joined B. They together finished the remaining work in 6 days. In how many days C alone can finish that work? (+1, -0.25)

- a. 36
- b. 30
- c. 32

d. 40

e. 46

40. A boat goes from point A to B upstream and returns to A through the same path. If the time of journey from A to B is twice that of the time taken to travel from B to A, then the ratio of the speed of the boat in still water to the speed of the current is (+1, -0.25)

a. 2 : 1

b. 4 : 3

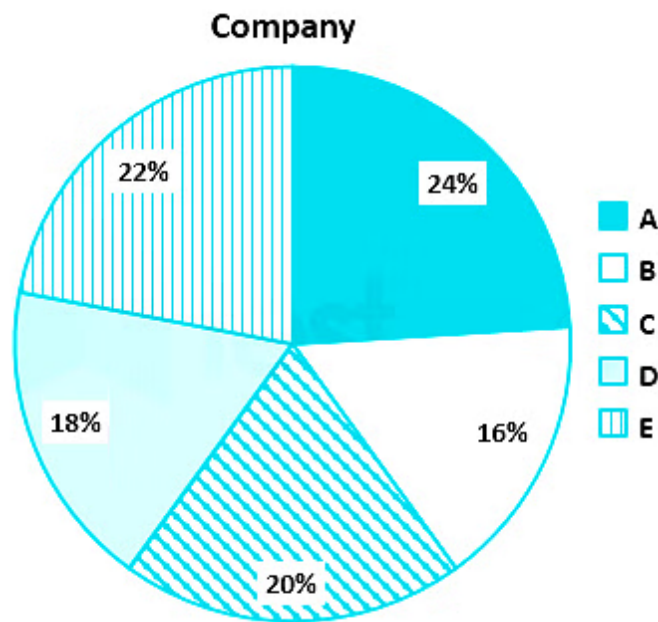
c. 3 : 2

d. 5 : 4

e. 3 : 1

41. Direction: Read the following information and answer the question accordingly. (+1, -0.25)

The given Pie chart shows the percentage distribution of total number of Employees in five different Company A,B,C,D,E. respectively. Total number of employees in five different Company is 3000.(Note: Ratio of Male to Female Employees is 3:2 in each company)

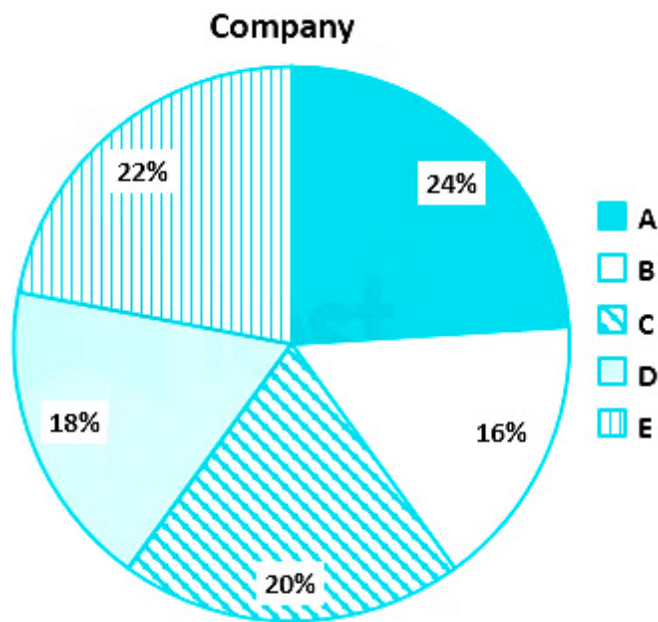


If another Company F has 10% more employees than company C and the ratio of male to female employees remain same. Then find the number of female employees in company F?

- a. 260
- b. 264
- c. 266
- d. 268
- e. 270

42. Direction: Read the following information and answer the question accordingly. (+1, -0.25)

The given Pie chart shows the percentage distribution of total number of Employees in five different Company A,B,C,D,E. respectively. Total number of employees in five different Company is 3000.(Note: Ratio of Male to Female Employees is 3:2 in each company)

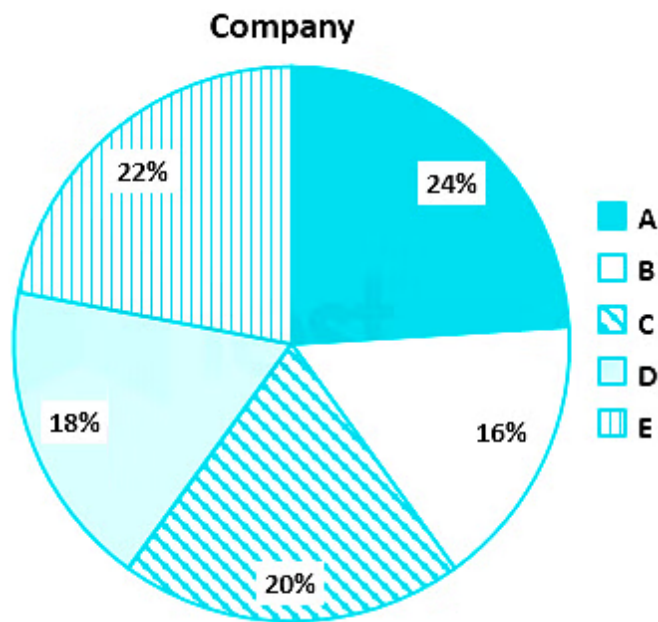


Find the Central Angle (in degrees) of total number of Employees in company D.

- a. 62.8
- b. 68.6
- c. 54.6
- d. 64.8
- e. 58.2

43. Direction: Read the following information and answer the question accordingly. (+1, -0.25)

The given Pie chart shows the percentage distribution of total number of Employees in five different Company A,B,C,D,E. respectively. Total number of employees in five different Company is 3000.(Note: Ratio of Male to Female Employees is 3:2 in each company)



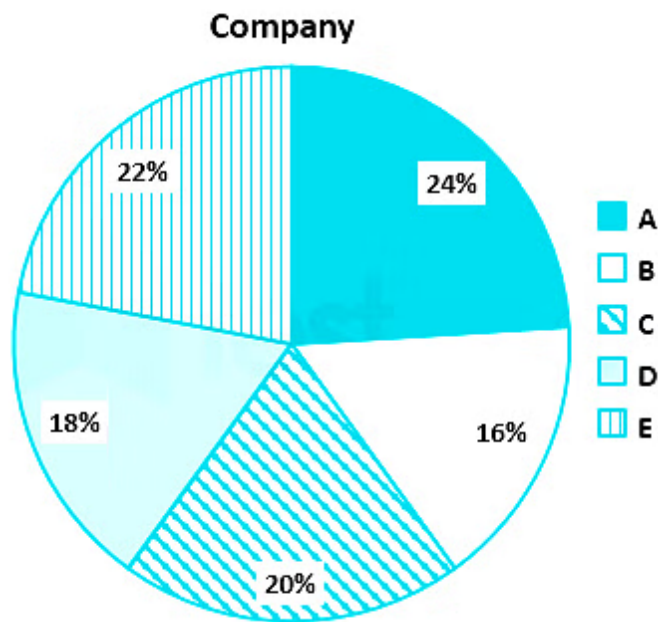
What is the average number of Males Employees in company B and E?

- a. 340
- b. 342
- c. 344
- d. 346
- e. 348

44. Direction: Read the following information and answer the question accordingly.

(+1, -0.25)

The given Pie chart shows the percentage distribution of total number of Employees in five different Company A,B,C,D,E. respectively. Total number of employees in five different Company is 3000.(Note: Ratio of Male to Female Employees is 3:2 in each company)

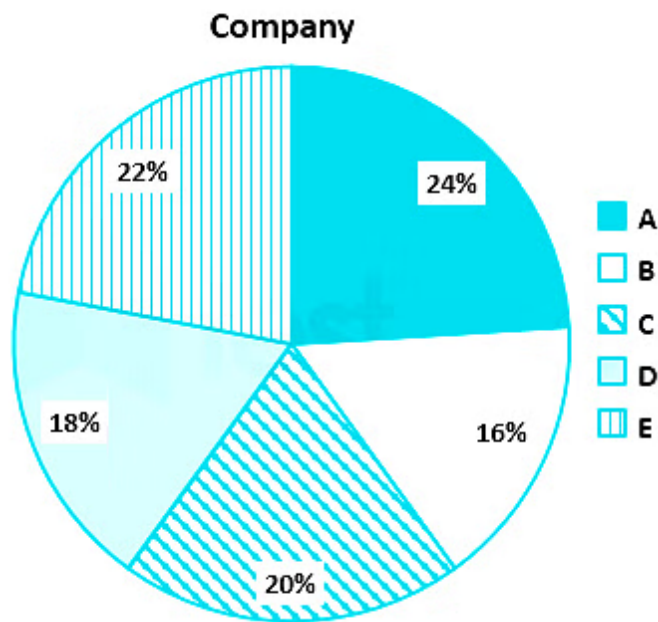


The number of Female employees in Company C is what percentage more than the number of Female Employees in Company D?

- a. 9.09%
- b. 11.11%
- c. 18.18%
- d. 22.22%
- e. 33.33%

45. Direction: Read the following information and answer the question accordingly. (+1, -0.25)

The given Pie chart shows the percentage distribution of total number of Employees in five different Company A,B,C,D,E. respectively. Total number of employees in five different Company is 3000.(Note: Ratio of Male to Female Employees is 3:2 in each company)



What is the difference between the total number of Male and Female Employees in Company D?

- a. 104
- b. 106
- c. 108
- d. 110
- e. 112

46. A family decided to spend 13% of their monthly income on traveling, 27% of their monthly income on household expenses, and 35% of their monthly income on family's medical expenses, and 5% on insurance. The family has the remaining amount of Rs. 13200 as cash. What is the monthly income of the family? (+1, -0.25)
- a. Rs 66,000
 - b. Rs 50,000

- c. Rs 45,000
- d. Rs 35,000
- e. None of these

47. Kamal and Raju started a partnership for total of 3.5 years in such a way that initially Kamal invested Rs. 7500 for 24 months after that Kamal withdraws his amount and Raju invests certain capital for the remaining time. The profit Raju received after 3.5 years is Rs. 1400 out of total profit of Rs. 3000. What was the amount Raju invested. (+1, -0.25)

- a. Rs. 9000
- b. Rs. 7500
- c. Rs. 8400
- d. Rs. 8750
- e. Rs. 8000

48. A man invests a certain sum of money at the rate of interest 10% for 2 years. After 2 years, he earns Rs. 400 as a simple interest. If he invests the same sum of money at the same rate for 2 years on compound interest, then find how much percentage of the compound interest is greater than the simple interest? (+1, -0.25)

- a. 7.5%
- b. 10%
- c. 5%
- d. 20%

e. 15%

49. A man purchased 150 t-shirts, each costing the same, but 40% of them are lost in transit which cannot be recovered. He sold 50% of the remaining at 20% profit each and remaining at 5% loss each. If the total selling price of t-shirts is Rs. 7740, then what was the cost price of each t-shirts? (+1, -0.25)

a. Rs. 100

b. Rs. 60

c. Rs. 90

d. Rs. 80

e. Rs. 85

50. A train running at a speed of x km/hr crosses another (running in the opposite direction) train in 21 seconds which is $\frac{3}{4}$ th of its length and running at a speed of $(x - 6)$ km/hr. First train crosses a railway platform whose length is 300 meter, in 42 sec. Then, what is the value of x ? (+1, -0.25)

a. 42

b. 45

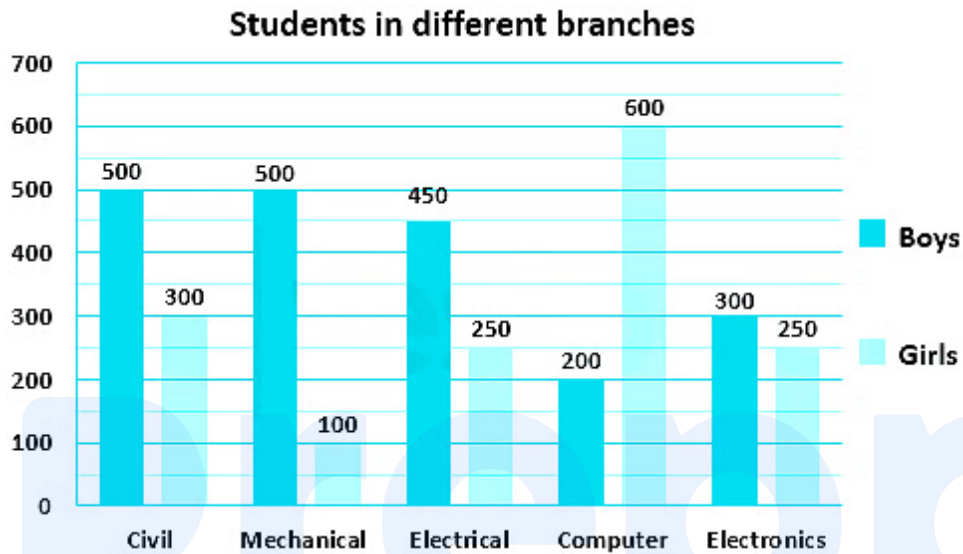
c. 70

d. 25

e. None of these

51. **Directions:** Read the following information carefully and answer the questions based on it. (+1, -0.25)

Following bar graph shows number of students of different branches of a college. Study the graph and answer the following question.

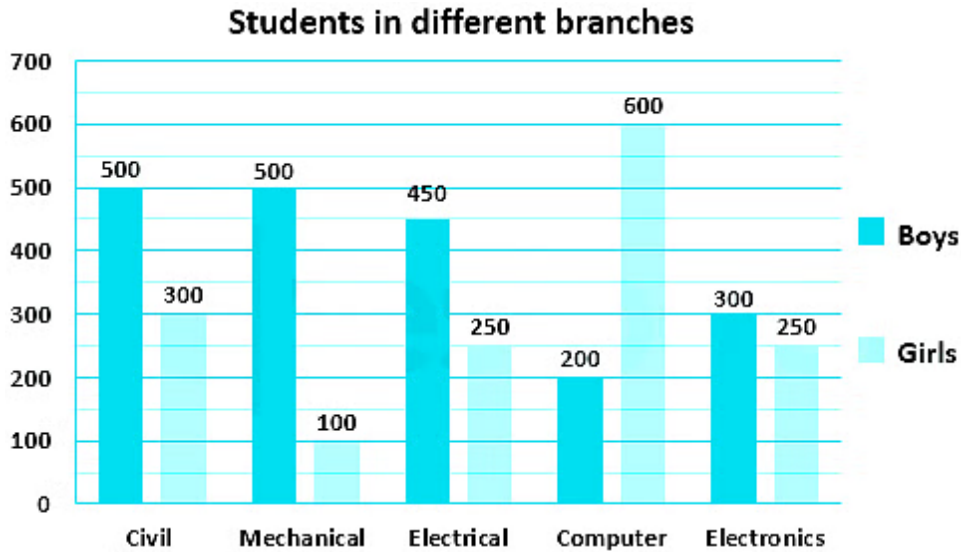


Find the average number of boys in a college including five branches.

- a. 400
- b. 390
- c. 300
- d. 370
- e. 420

52. **Directions:** Read the following information carefully and answer the questions based on it. (+1, -0.25)

Following bar graph shows number of students of different branches of a college. Study the graph and answer the following question.



Total number of girls in College for five branches is approximately what percent of total number of students in College?

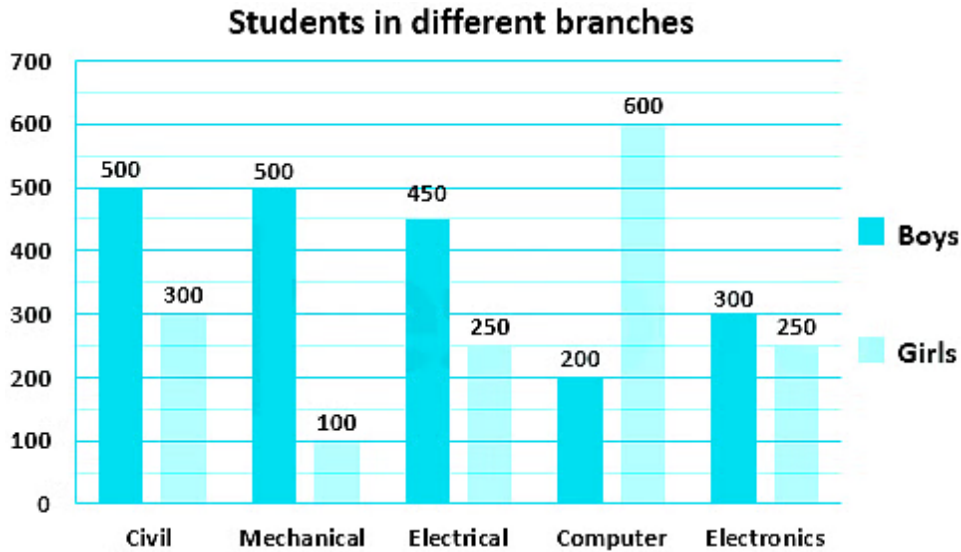
- a. 34.45%
- b. 45%
- c. 60.6%
- d. 43.48%

e. None of these

53. **Directions:** Read the following information carefully and answer the questions based on it.

(+1, -0.25)

Following bar graph shows number of students of different branches of a college. Study the graph and answer the following question.



Ratio of total number of students in computer branch to total number of Students of Mechanical and Electronics is -

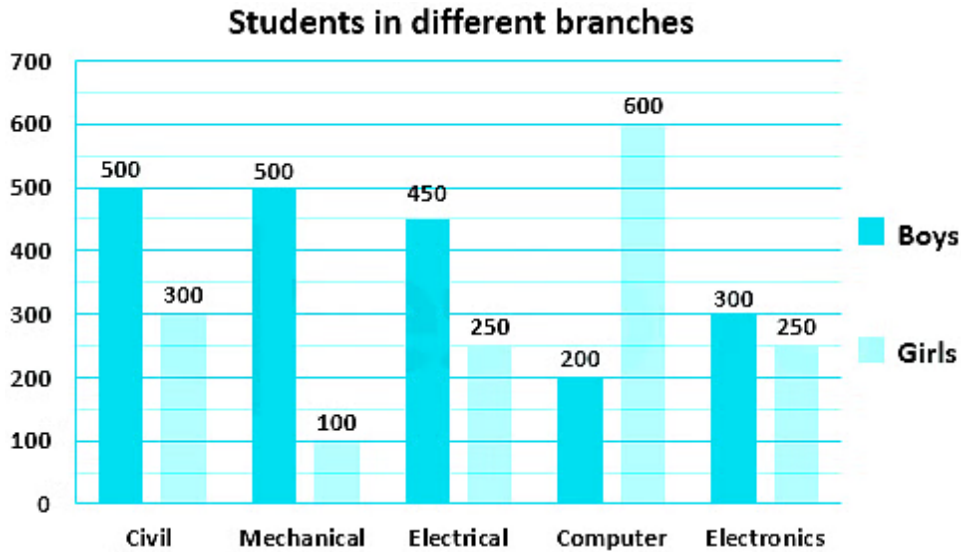
- a. 22 : 15
- b. 21 : 16
- c. 16 : 23
- d. 23 : 15

e. None of these

54. Directions: Read the following information carefully and answer the questions based on it.

(+1, -0.25)

Following bar graph shows number of students of different branches of a college. Study the graph and answer the following question.



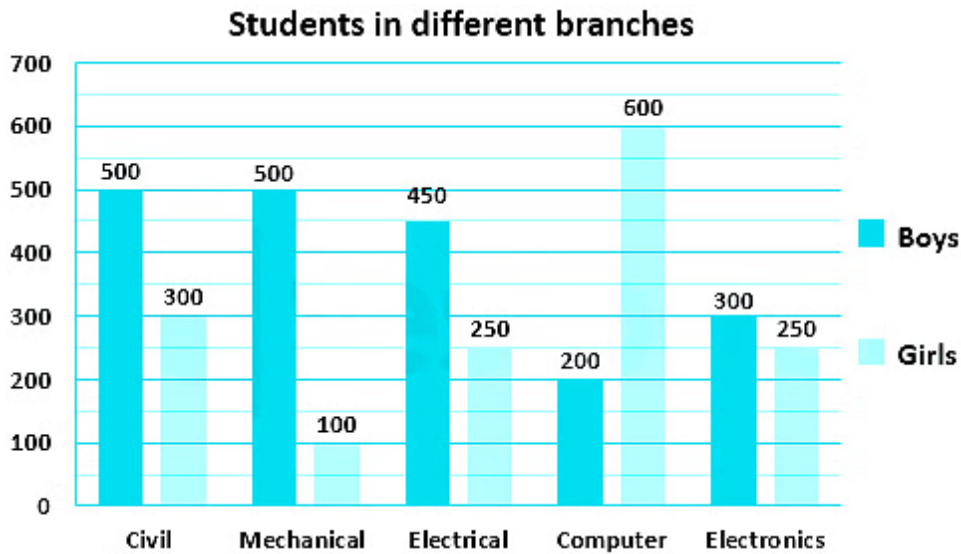
Total number of boys in Mechanical branch is approximately what percent of total number of boy's students in all five branches?

- a. 21.7%
- b. 25.64%
- c. 22.54%
- d. 30%
- e. None of these

55. Directions: Read the following information carefully and answer the questions based on it.

(+1, -0.25)

Following bar graph shows number of students of different branches of a college. Study the graph and answer the following question.



Which branch has minimum ratio of boys' and girls' students?

- a. Electrical
- b. Computer
- c. Civil
- d. Electronics
- e. Both 2 and 3

Your Personal Exams Guide

56. Tap P and Q can fill a tank in 7 and 10 hours, respectively. Pipe R can empty the same tank in 15 hours. If all the three pipes are opened simultaneously, then in how much time the tank will be filled completely? (+1, -0.25)

- a. $4\frac{37}{25}$ hours
- b. $5\frac{25}{37}$ hours
- c. $9\frac{25}{37}$ hours
- d. $11\frac{37}{25}$ hours

e. None of the above

57. The present age of Ram and Rohit are in the ratio of 7 : 8 respectively. (+1, -0.25)
After 6 years, the respective ratio between the age of Ram and Rohit will be 9 : 10. What is the age of Rohit after 10 years?

- a. 30 years
 - b. 34 years
 - c. 40 years
 - d. 42 years
 - e. 27 years
-

58. For traveling a distance of 48 km, a girl noticed that after walking for 1 hour and 40 minutes, the distance covered by her was $\frac{2}{7}$ of the remaining distance. What was her speed in meters per second? (+1, -0.25)

- a. $\frac{16}{9}$ m/s
 - b. $\frac{14}{5}$ m/s
 - c. 3 m/s
 - d. 4 m/s
 - e. Non of the above
-

59. The ratio between the length of the rectangular field and the side of the square field is 6 : 1 and the breadth of the rectangular field is $\frac{1}{3}$ rd of the side of the square field. If the perimeter of the square is 120 m, then, find the cost of fencing the rectangular field at the rate of Rs. 20 per m? (+1, -0.25)

- a. Rs. 7,600
- b. Rs. 7,200
- c. Rs. 7,500
- d. Rs. 8,200
- e. None of these

-
60. There are two vessels A and B of milk and water. The vessel A contains ratio of milk to water as 3 : 5 and vessel B contains ratio of milk to water as 2 : 3. If 32 litres of mixture from vessel A and x litre of mixture from vessel B is taken out to form the new mixture. Ratio of milk to water in the new mixture is 5 : 8. Find the value of x. (+1, -0.25)
- a. 15 litres
- b. 20 litres
- c. 22 litres
- d. 25 litres
- e. 28 litres

-
61. What approximate will come in the place of the question mark '?' in the following question? (+1, -0.25)
- $9.78\% \text{ of } 79.94 + ?\% \text{ of } 9.67 = 10.94 \times 2.99 + \sqrt{100} \times 2.98$
- a. 600
- b. 550
- c. 580

- d. 610
 - e. None of these.
-

62. What approximate value should come in place of the question mark (?) in (+1, -0.25) the following question?

$$49.97\% \text{ of } 1900.1 + (7.99)^3 \times 4.97 + ? = (5.03)^3 \times 27.98$$

- a. -6
 - b. 6
 - c. 10
 - d. -10
 - e. 20
-

63. What approximate value will come in the place of the question mark (?) in (+1, -0.25) the following question?

$$15.67 \times 62.5\% - 12.5 \times 7.99\% + 24.2 \div 6 = 50.01 \div 5.12 + ?$$

- a. 30
 - b. 50
 - c. 15
 - d. 3
 - e. 17
-

64. What approximate will come in the place of the question mark '?' in the following question? (+1, -0.25)

$$37.98\% \text{ of } 549.99 + \sqrt{(49.02) \div ?} = 7.99 \times (2.97)^3$$

- a. 0
- b. 1
- c. 2
- d. 3
- e. 4

-
65. What approximate value should come in place of question mark? (+1, -0.25)

$$(22.03\% \text{ of } 150.01) + (361.33)^{1/2} + (63.92 \div 2.012) + (11.02\% \text{ of } 499.98) = ?$$

- a. 129
- b. 119
- c. 139
- d. 149
- e. 159

Reasoning Ability

66. **Direction:** Study the following information carefully to answer the given questions. (+1, -0.25)

6 people – A, B, C, P, Q, and R, work in the same school had their performance reviews in the months of March, July and December on either the 14th or the 26th of the month. Each of them teaches a different subject. B had his performance review on the 26th of July. The Biology teacher had his performance review after the Maths teacher in the same month. The History teacher had his review before A, who did not teach Chemistry. 4 people had their reviews between P and C, who did not teach Physics. C was not the English teacher but had his review immediately after Q. R did not teach Biology. 2 people had their reviews between the Physics teacher and B. The English teacher had his review in December.

Who is the Maths teacher?

- a. B
- b. C
- c. P
- d. Q
- e. A

67. **Direction:** Study the following information carefully to answer the given questions. (+1, -0.25)

6 people – A, B, C, P, Q, and R, work in the same school had their performance reviews in the months of March, July and December on either the 14th or the 26th of the month. Each of them teaches a different subject. B had his performance review on the 26th of July. The Biology teacher had his performance review after the Maths teacher in the same month. The History teacher had his review before A, who did not teach

Chemistry. 4 people had their reviews between P and C, who did not teach Physics. C was not the English teacher but had his review immediately after Q. R did not teach Biology. 2 people had their reviews between the Physics teacher and B. The English teacher had his review in December.

How many people had their review between the History and Chemistry teacher?

- a. 1 person
- b. 4 people
- c. 2 people
- d. 5 people
- e. 3 people

68. Direction: Study the following information carefully to answer the given questions. (+1, -0.25)

6 people – A, B, C, P, Q, and R, work in the same school had their performance reviews in the months of March, July and December on either the 14th or the 26th of the month. Each of them teaches a different subject. B had his performance review on the 26th of July. The Biology teacher had his performance review after the Maths teacher in the same month. The History teacher had his review before A, who did not teach Chemistry. 4 people had their reviews between P and C, who did not teach Physics. C was not the English teacher but had his review immediately after Q. R did not teach Biology. 2 people had their reviews between the Physics teacher and B. The English teacher had his review in December.

Who was the Chemistry teacher?

- a. A

b. P

c. B

d. Q

e. C

69. **Direction:** Study the following information carefully to answer the given questions. (+1, -0.25)

6 people – A, B, C, P, Q, and R, work in the same school had their performance reviews in the months of March, July and December on either the 14th or the 26th of the month. Each of them teaches a different subject. B had his performance review on the 26th of July. The Biology teacher had his performance review after the Maths teacher in the same month. The History teacher had his review before A, who did not teach Chemistry. 4 people had their reviews between P and C, who did not teach Physics. C was not the English teacher but had his review immediately after Q. R did not teach Biology. 2 people had their reviews between the Physics teacher and B. The English teacher had his review in December.

When did the English teacher have his review?

a. December 26

b. July 14

c. March 26

d. July 26

e. December 14

70. **Direction:** Study the following information carefully to answer the given questions. (+1, -0.25)

6 people – A, B, C, P, Q, and R, work in the same school had their

performance reviews in the months of March, July and December on either the 14th or the 26th of the month. Each of them teaches a different subject. B had his performance review on the 26th of July. The Biology teacher had his performance review after the Maths teacher in the same month. The History teacher had his review before A, who did not teach Chemistry. 4 people had their reviews between P and C, who did not teach Physics. C was not the English teacher but had his review immediately after Q. R did not teach Biology. 2 people had their reviews between the Physics teacher and B. The English teacher had his review in December.

Who had the first performance review?

- a. The Biology teacher
- b. R
- c. The History teacher
- d. Q
- e. The Physics teacher

Your Personal Exams Guide

71. Directions: Read the following comprehension and answer the questions given below. (+1, -0.25)

Starting from point P, Yuvraj walked 20 meters toward the South and reached point O. He turned left and walked 30 meters and reached point Q. From point Q he turned left and walked 20 meters and reached point R. He again turned left and walked 40 meters and reached point S. Then he turned right and walked for 30 meters and reached point T. He again turned left and walked 20 meters and reached point U. Then he turned left and walked 70 meters and reached point V. From there he turned left and walked 20 meters and reached point W. Then he turned left and walked 10 meters and reached point X. At last, he turned right and walked 10 meters, and reached point Y.

What is the total distance travelled Yuvraj from starting point P to point V?

- a. 110 meters
- b. 135 meters
- c. 130 meters
- d. 120 meters
- e. 90 meters

72. Directions: Read the following comprehension and answer the questions given below. (+1, -0.25)

Starting from point P, Yuvraj walked 20 meters toward the South and reached point O. He turned left and walked 30 meters and reached point Q. From point Q he turned left and walked 20 meters and reached point R. He again turned left and walked 40 meters and reached point S. Then he turned right and walked for 30 meters and reached point T. He again turned left and walked 20 meters and reached point U. Then he turned left and walked 70 meters and reached point V. From there he turned left and walked 20 meters and reached point W. Then he turned left and walked 10 meters and reached point X. At last, he turned right and walked 10 meters, and reached point Y.

Point S is on which direction with respect to O?

- a. North - West
- b. North
- c. North - South
- d. South

e. East

73. Directions: Read the following comprehension and answer the questions given below. (+1, -0.25)

Starting from point P, Yuvraj walked 20 meters toward the South and reached point O. He turned left and walked 30 meters and reached point Q. From point Q he turned left and walked 20 meters and reached point R. He again turned left and walked 40 meters and reached point S. Then he turned right and walked for 30 meters and reached point T. He again turned left and walked 20 meters and reached point U. Then he turned left and walked 70 meters and reached point V. From there he turned left and walked 20 meters and reached point W. Then he turned left and walked 10 meters and reached point X. At last, he turned right and walked 10 meters, and reached point Y.

In which direction point Q with respect to the Y?

- a. North
- b. South
- c. North-East
- d. North-West
- e. South-East

74. Direction: Study the following information carefully to answer the given questions. (+1, -0.25)

A certain number of people sit in a row facing North. U sits 3rd to the left of S. T sits 3rd from one of the ends of the row, 7 places away from R. P sits 2nd to the right of R. A sits at the right end of the row. One person sits between X and B, who has 4 people sit between him and Z. Q sits immediately between X and T. Nobody sits to the left of R.

Who sit between P and X?

- a. U and A
- b. R and S
- c. B and S
- d. U and B
- e. S and A

75. **Direction:** Study the following information carefully to answer the given questions. (+1, -0.25)

A certain number of people sit in a row facing North. U sits 3rd to the left of S. T sits 3rd from one of the ends of the row, 7 places away from R. P sits 2nd to the right of R. A sits at the right end of the row. One person sits between X and B, who has 4 people sit between him and Z. Q sits immediately between X and T. Nobody sits to the left of R.

How many people sit in the row?

- a. 9 people
- b. 10 people
- c. 11 people
- d. 12 people
- e. 13 people

76. **Direction:** Study the following information carefully to answer the given questions. (+1, -0.25)

A certain number of people sit in a row facing North. U sits 3rd to the left of S. T sits 3rd from one of the ends of the row, 7 places away from R. P sits 2

nd to the right of R. A sits at the right end of the row. One person sits between X and B, who has 4 people sit between him and Z. Q sits immediately between X and T. Nobody sits to the left of R.

Who sits 2nd to the left of the one who sits 5th to the right of the one sitting at the left end of the row?

- a. A
- b. P
- c. Q
- d. B
- e. Z

77. How many such pairs of letters are there in the word 'CUSTOMER', each of which has as many letters between them in the word (both forward and backward direction) as they have between them in the English Alphabet? (+1, -0.25)

- a. One
- b. Three
- c. Two
- d. Zero
- e. More than three

78. Directions: Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Nine people viz; G, H, I, J, K, L, M, N and O are working in a company in three different departments viz; Marketing, Finance and Admin. A minimum of 2

people and a maximum of 4 people are working in a department. I is not working in Admin. G is working in Finance. M is not working in Marketing and not with G also. N is not working in Marketing. O is working with G. H and K working together but not in Marketing. J neither works in Finance nor with M. N is not working with K. L is working with only one person.

In which department maximum number of people working?

- a. Department of H
- b. Finance
- c. Admin
- d. Marketing
- e. Both option II and III

79. Directions: Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Nine people viz; G, H, I, J, K, L, M, N and O are working in a company in three different departments viz; Marketing, Finance and Admin. A minimum of 2 people and a maximum of 4 people are working in a department. I is not working in Admin. G is working in Finance. M is not working in Marketing and not with G also. N is not working in Marketing. O is working with G. H and K working together but not in Marketing. J neither works in Finance nor with M. N is not working with K. L is working with only one person.

H works in which department?

- a. Admin
- b. Finance
- c. Marketing

d. Can't determine

e. Works with I

-
80. Directions: Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Nine people viz; G, H, I, J, K, L, M, N and O are working in a company in three different departments viz; Marketing, Finance and Admin. A minimum of 2 people and a maximum of 4 people are working in a department. I is not working in Admin. G is working in Finance. M is not working in Marketing and not with G also. N is not working in Marketing. O is working with G. H and K working together but not in Marketing. J neither works in Finance nor with M. N is not working with K. L is working with only one person.

Who is the following works with L?

a. G

b. H

c. N

d. J

e. M

-
81. Directions: Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Nine people viz; G, H, I, J, K, L, M, N and O are working in a company in three different departments viz; Marketing, Finance and Admin. A minimum of 2 people and a maximum of 4 people are working in a department. I is not working in Admin. G is working in Finance. M is not working in Marketing and not with G also. N is not working in Marketing. O is working with G. H

and K working together but not in Marketing. J neither works in Finance nor with M. N is not working with K. L is working with only one person.

Which department has least number of people working?

- a. Department of H
- b. Department of M
- c. Department of J
- d. Department of I
- e. Department of G

82. Directions: Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Nine people viz; G, H, I, J, K, L, M, N and O are working in a company in three different departments viz; Marketing, Finance and Admin. A minimum of 2 people and a maximum of 4 people are working in a department. I is not working in Admin. G is working in Finance. M is not working in Marketing and not with G also. N is not working in Marketing. O is working with G. H and K working together but not in Marketing. J neither works in Finance nor with M. N is not working with K. L is working with only one person.

Who works in Finance?

- a. I
- b. G
- c. L
- d. Both option I and III
- e. Both option I and II

83. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. (+1, -0.25)

TRP, QOM, NLJ, KIG, ?

- a. HDF
- b. HFC
- c. HFD
- d. HJL
- e. None of above

84. **Direction :** In the question below, there are three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts. (+1, -0.25)

Statements:

Some book are shelf.

Each shelf is board.

No board is table.

Conclusions:

I. No shelf is table.

II. Some board are book.

- a. Only conclusion I follows

- b. Only conclusion II follows
- c. Both I and II follow
- d. Neither I nor II follows
- e. Either I or II follows

85. Direction: In the question below are given three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts. (+1, -0.25)

Statement:

Some Buses are Shoes.

No Shoes are Oil.

All Oil are Keywords.

Conclusion:

I. Some Buses are not Oil.

II. Some keywords are Shoes.

- a. Only conclusion I follow
- b. Only conclusion II follow
- c. Either conclusion I or II follows
- d. Neither conclusion I nor II follows
- e. Both conclusion I and II follow

86. Direction: In the question below are given three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given (+1, -0.25)

conclusions logically follows from the given statements disregarding the commonly known facts.

Statement:

Only a few Boys are Girls.

Some Girls are Women.

All Women are Men.

Conclusion:

I. All Boys being Girls is a possibility.

II. Some Men are Girls.

- a. Only conclusion I follow
- b. Only conclusion II follow
- c. Either conclusion I or II follows
- d. Neither conclusion I nor II follows
- e. Both conclusion I and II follow

87. **Directions:** Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Fourteen people are sitting in two parallel rows. Row-1 is in the South of row-2. Persons of row 1 faces persons of row 2. Each row has 7 seats. A, B, C, D, E, F and G are sitting in row-2 and facing South while P, Q, R, S, T, U and V Are sitting in row-1 and facing North. G is second from one end. Only one people is sitting between P and the one who is facing G. Only two people are sitting between G and C. A is sitting immediately to the left of C. The one who is facing A is sitting immediate left of R. One person is sitting between T and U. As many people are sitting between T and R as are sitting between T and U. S and D are facing each other and sitting on an end. Only one person is sitting between C and E, who is not facing U. B is sitting immediate right of F. Both F and G are not facing V.

Who is facing V?

- a. F
- b. E
- c. D
- d. A
- e. B

88. **Directions:** Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Fourteen people are sitting in two parallel rows. Row-1 is in the South of row-2. Persons of row 1 faces persons of row 2. Each row has 7 seats. A, B, C, D, E, F and G are sitting in row-2 and facing South while P, Q, R, S, T, U and V Are sitting in row-1 and facing North. G is second from one end. Only one people is sitting between P and the one who is facing G. Only two people are sitting between G and C. A is sitting immediately to the left of C. The one who is facing A is sitting immediate left of R. One person is sitting between T and U. As many people are sitting between T and R as are sitting between T and U. S and D are facing each other and sitting on an end. Only one person is sitting between C and E, who is not facing U. B is sitting immediate right of F. Both F and G are not facing V.

How many people are sitting between C and D?

- a. Four
- b. Three
- c. Two
- d. One
- e. None

89. **Directions:** Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Fourteen people are sitting in two parallel rows. Row-1 is in the South of row-2. Persons of row 1 faces persons of row 2. Each row has 7 seats. A, B, C, D, E, F and G are sitting in row-2 and facing South while P, Q, R, S, T, U and V Are sitting in row-1 and facing North. G is second from one end. Only one people is sitting between P and the one who is facing G. Only two people are sitting between G and C. A is sitting immediately to the left of C. The one who is facing A is sitting immediate left of R. One person is sitting between T and U. As many people are sitting between T and R as are sitting between T and U. S and D are facing each other and sitting on an end. Only one person is sitting between C and E, who is not facing U. B is sitting immediate right of F. Both F and G are not facing V.

Who is sitting third to the right of E?

- a. G
- b. C
- c. F
- d. D
- e. A

90. **Directions:** Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Fourteen people are sitting in two parallel rows. Row-1 is in the South of row-2. Persons of row 1 faces persons of row 2. Each row has 7 seats. A, B, C, D, E, F and G are sitting in row-2 and facing South while P, Q, R, S, T, U and V Are sitting in row-1 and facing North. G is second from one end. Only one people is sitting between P and the one who is facing G. Only

two people are sitting between G and C. A is sitting immediately to the left of C. The one who is facing A is sitting immediate left of R. One person is sitting between T and U. As many people are sitting between T and R as are sitting between T and U. S and D are facing each other and sitting on an end. Only one person is sitting between C and E, who is not facing U. B is sitting immediate right of F. Both F and G are not facing V.

Four of the five options are alike in a certain way find the odd one out?

- a. D
- b. S
- c. G
- d. E
- e. R

91. **Directions:** Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Fourteen people are sitting in two parallel rows. Row-1 is in the South of row-2. Persons of row 1 faces persons of row 2. Each row has 7 seats. A, B, C, D, E, F and G are sitting in row-2 and facing South while P, Q, R, S, T, U and V Are sitting in row-1 and facing North. G is second from one end. Only one people is sitting between P and the one who is facing G. Only two people are sitting between G and C. A is sitting immediately to the left of C. The one who is facing A is sitting immediate left of R. One person is sitting between T and U. As many people are sitting between T and R as are sitting between T and U. S and D are facing each other and sitting on an end. Only one person is sitting between C and E, who is not facing U. B is sitting immediate right of F. Both F and G are not facing V.

Who is sitting second to the left of the one who is facing A?

- a. T
 - b. S
 - c. P
 - d. Q
 - e. R
-

92. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. (+1, -0.25)

LP, MR, ?, OV, PX

- a. MT
- b. MU
- c. NT
- d. NU
- e. None

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93. **Directions :** In the following question assuming the given statements to be True, find which of the conclusion among given conclusions is/are definitely true and then give your answers accordingly. (+1, -0.25)

Statements: $P > Q > R$; $R > S \geq T$

Conclusions:

- I. $R > T$
- II. $P > S$

- a. Only I is true
- b. Only II is true
- c. Both I and II are true
- d. Either I or II is true
- e. Neither I nor II is true

94. **Direction:** In the following question assuming the given statements to be True, find which of the conclusion among given conclusions is/are definitely true and then give your answers accordingly. (+1, -0.25)

Statements: $M > E \leq W$; $Q < E$; $Q \geq P > S$

Conclusions:

- I. $M > S$
- II. $E \geq P$

- a. Only II is True
- b. Neither I nor II is true
- c. Both I and II are True
- d. Either I or II is True
- e. Only I is True

95. If it is possible to make only one four-letter meaningful English word with the 4th, 8th, 10th and 11th letters of word GALACTOMETER, which of the following will be the second letter from the left of that word? If no such word can be made give 'X' as the answer and if more than one such word can be made give 'Y' as the answer. (+1, -0.25)

- a. E
- b. A
- c. Y
- d. M
- e. X

96. Directions: Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Seven people viz; K, L, M, N, O, P, and Q are living in a seven story building where topmost floor is numbered as 7 and bottommost floor is numbered as 1. All of them like different colours viz; Blue, White, Green, Red, Black, Pink, and Yellow but not necessarily the same. Only two people live below the one who likes Blue. Only one person lives between the one who likes Green and Blue. Q lives immediately above the one who likes Blue. O lives two floors above Q. Only one person lives between O and the one who likes Red. M likes Black and lives on Topmost floor. The one who likes Pink lives immediately above the one who likes Green. Only one person lives between Q and N. The one who likes White lives immediately above the one who likes Yellow. Only one person lives between K and L, who lives below K but not on the bottommost floor. P doesn't like Green.

Who likes Yellow colour?

- a. Q
- b. L
- c. P
- d. O
- e. K

97. Directions: Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Seven people viz; K, L, M, N, O, P, and Q are living in a seven story building where topmost floor is numbered as 7 and bottommost floor is numbered as 1. All of them like different colours viz; Blue, White, Green, Red, Black, Pink, and Yellow but not necessarily the same. Only two people live below the one who likes Blue. Only one person lives between the one who likes Green and Blue. Q lives immediately above the one who likes Blue. O lives two floors above Q. Only one person lives between O and the one who likes Red. M likes Black and lives on Topmost floor. The one who likes Pink lives immediately above the one who likes Green. Only one person lives between Q and N. The one who likes White lives immediately above the one who likes Yellow. Only one person lives between K and L, who lives below K but not on the bottommost floor. P doesn't like Green.

How many people live between N and K?

- a. Three
- b. Two
- c. Four
- d. One
- e. None

98. Directions: Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Seven people viz; K, L, M, N, O, P, and Q are living in a seven story building where topmost floor is numbered as 7 and bottommost floor is numbered as 1. All of them like different colours viz; Blue, White, Green, Red, Black, Pink, and Yellow but not necessarily the same. Only two people live below the

one who likes Blue. Only one person lives between the one who likes Green and Blue. Q lives immediately above the one who likes Blue. O lives two floors above Q. Only one person lives between O and the one who likes Red. M likes Black and lives on Topmost floor. The one who likes Pink lives immediately above the one who likes Green. Only one person lives between Q and N. The one who likes White lives immediately above the one who likes Yellow. Only one person lives between K and L, who lives below K but not on the bottommost floor. P doesn't like Green.

Four of the five options are same in a certain way find the odd one out?

- a. M
- b. P
- c. L
- d. Q
- e. K

99. Directions: Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Seven people viz; K, L, M, N, O, P, and Q are living in a seven story building where topmost floor is numbered as 7 and bottommost floor is numbered as 1. All of them like different colours viz; Blue, White, Green, Red, Black, Pink, and Yellow but not necessarily the same. Only two people live below the one who likes Blue. Only one person lives between the one who likes Green and Blue. Q lives immediately above the one who likes Blue. O lives two floors above Q. Only one person lives between O and the one who likes Red. M likes Black and lives on Topmost floor. The one who likes Pink lives immediately above the one who likes Green. Only one person lives between Q and N. The one who likes White lives immediately above the one who likes Yellow. Only one person lives between K and L, who lives below K but not on the bottommost floor. P doesn't like Green.

Who lives immediately above the one who lives on bottommost floor?

- a. L
- b. Q
- c. The one who likes White
- d. The one who likes Yellow
- e. O

100. Directions: Read the Following comprehension carefully and answer the following questions given below. (+1, -0.25)

Seven people viz; K, L, M, N, O, P, and Q are living in a seven story building where topmost floor is numbered as 7 and bottommost floor is numbered as 1. All of them like different colours viz; Blue, White, Green, Red, Black, Pink, and Yellow but not necessarily the same. Only two people live below the one who likes Blue. Only one person lives between the one who likes Green and Blue. Q lives immediately above the one who likes Blue. O lives two floors above Q. Only one person lives between O and the one who likes Red. M likes Black and lives on Topmost floor. The one who likes Pink lives immediately above the one who likes Green. Only one person lives between Q and N. The one who likes White lives immediately above the one who likes Yellow. Only one person lives between K and L, who lives below K but not on the bottommost floor. P doesn't like Green.

Who lives between the one who likes Red and N?

- a. Q
- b. L
- c. M
- d. O

e. K

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Answers

1. Answer: b

Explanation:

The correct answer is Option 2.

★ Key Points

- **Concur** means to agree or have the same opinion, which is similar to conceding. This option is a possible synonym for concede.

★ Additional Information

- **Refute**: Refute means to prove something to be false or incorrect, which is the opposite of conceding. Therefore, refute is not a synonym for concede.
- **Deny**: Deny means to refuse to accept or acknowledge something, which is opposite to conceding. Therefore, deny is not a synonym for concede.
- **Oppose**: Oppose means to be against or resist something, which is contrary to conceding. Therefore, oppose is not a synonym for concede.
- **Challenge**: Challenge means to question or dispute something, which is not synonymous with conceding. Therefore, challenge is not a synonym for concede.

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2. Answer: a

Explanation:

The correct answer is Option 1.

★ Key Points

- **Disagree** means to have a different opinion or to be in conflict with someone, which is the opposite of agreeing. This option is a possible antonym for agree.

★ Additional Information

- **Consent:** Consent means to give permission or to agree to something, which is synonymous with agreeing. Therefore, consent is not an antonym for agree.
- **Concur:** Concur means to agree or have the same opinion, which is synonymous with agreeing. Therefore, concur is not an antonym for agree.
- **Harmonize:** Harmonize means to blend or reconcile different elements, which does not represent the opposite of agreeing. Therefore, harmonize is not an antonym for agree.
- **Support:** Support means to endorse or assist, which can be done both when agreeing and disagreeing. Therefore, support is not an antonym for agree.

3. Answer: c

Explanation:

The correct answer is Option 3.

★ Key Points

- **To ensure passenger safety by addressing concerns and providing evidence**
- The passage states that extensive research and stringent testing protocols should be implemented to alleviate concerns and provide unequivocal evidence.
- This suggests that the purpose of these measures is to address any potential safety concerns related to cellular signals in airplanes. By conducting thorough research and testing, stakeholders aim to gather evidence that supports the notion that cellular signals do not pose a threat to the aircraft's avionics.
- The ultimate goal is to ensure passenger safety by addressing concerns and providing concrete evidence to support the implementation of a robust 5G network.

4. Answer: c

Explanation:

The correct answer is Option 3.

★ Key Points

- The passage mentions several aspects that must be addressed to ensure the efficacy and reliability of 5G within an airplane, including the need for stakeholders to collaborate to address technical obstacles and guarantee passenger safety.
- Among these obstacles, the challenge of cellular signals potentially interfering with the aircraft's operations is explicitly stated.
- Hence, the "signal interference" (option 3) is a correct answer as one of the challenges in ensuring the efficacy and reliability of 5G within an airplane.

5. Answer: d

Explanation:

The correct answer is Option 4.

★ Key Points

- **Telecommunication providers**
- The passage mentions that securing agreements with telecom companies is a vital element in establishing reliable 5G infrastructure for in-flight usage.
- Telecom companies play a crucial role in providing the necessary technology and infrastructure for implementing a 5G network. These agreements focus on optimizing network coverage, minimizing signal interference, and maximizing bandwidth capacity, ensuring a seamless and reliable mobile experience for passengers.
- Thus, telecommunication providers are an essential part of establishing a robust 5G network within airplanes.

6. Answer: b

Explanation:

The correct answer is Option 2.

★ Key Points

- This option accurately reflects the meaning of "hammering out" in the given passage. It refers to the team's determined efforts to engage in discussions and negotiations to reach a viable solution.
- **Passage context:** "The team of experts gathered in the conference room, diligently discussing the details of the project. They were determined to reach a consensus and overcome any differences. Hours went by, and finally, after intense negotiations, they started hammering out a viable solution."

★ Additional Information

- **Physically using a hammer to construct something:** The passage context does not suggest any physical construction work. "Hammering out" is not related to physical hammer usage in this context.
- **Hammering a point repeatedly to emphasize its importance:** While this option contains the word "hammering," it does not capture the meaning of "hammering out" in the context of the passage. The phrase does not refer to emphasizing a point through repetitive hammering.
- **Engaging in a physical activity to relieve stress after negotiations:** The passage does not mention any stress or physical activities after negotiations. This option does not align with the meaning of "hammering out" in the given context.
- **Demonstrating determination and perseverance through the use of a hammer:** While determination and perseverance are implied in the passage, "hammering out" does not involve the literal use of a hammer. This option does not accurately represent the meaning in the given context.

7. Answer: d

Explanation:

The correct answer is Option 4.

★ Key Points

- Optimizing network coverage, minimizing signal interference, and maximizing bandwidth capacity
- The passage mentions that securing agreements with telecom companies is a vital element in establishing reliable 5G infrastructure for passenger mobile usage in airplanes. These agreements should focus on three main aspects: optimizing network coverage, minimizing signal interference, and maximizing bandwidth capacity. By emphasizing these factors, stakeholders aim to ensure a reliable and seamless 5G network for in-flight usage. This will help provide consistent connectivity and a high-quality mobile experience for passengers throughout their journey.

8. Answer: a

Explanation:

The correct answer is Option 1.

★ Key Points

- Experience: This option accurately represents the overall benefits mentioned in the passage.
- Enhancing the passenger experience means creating an environment where passengers can have a positive and seamless journey, staying connected, productive, and respectful of safety and security regulations.
- The passage states that by hammering out the intricate details and agreeing upon standardized guidelines and protocols for the use of mobile devices during flights, all parties involved can enhance the passenger **experience**. This means that the focus is on improving and enriching the overall journey for passengers.

★ Additional Information

- **Option 2) Satisfaction:** While satisfaction can be a component of the enhanced passenger experience, it doesn't encompass the full scope of the benefits mentioned in the passage, such as staying connected and productive.
- **Option 3) Connectivity:** While connectivity is important for passengers to stay connected, it does not encompass the entire passenger experience, which includes factors beyond just being connected.
- **Option 4) Efficiency:** Efficiency can contribute to an improved passenger experience, but it doesn't encompass the full range of benefits mentioned in the passage, such as staying connected and productive throughout the journey.
- **Option 5) Enjoyment:** Enjoyment is a part of the passenger experience, but it does not capture the complete idea conveyed in the passage, which includes staying connected and productive while respecting safety and security regulations.

9. Answer: c

Explanation:

The correct answer is option 3.

★ Key Points

The given sentence is –

When the _____ (A) was about to announce the winner of the best actor award an _____ (B) of _____ (C) vibrated through the crowd.

- To answer the question let's first look at the meanings of all the marked words –
- (A) **Anticipation** – It's a noun that means 'the action of anticipating something; expectation or prediction'. (प्रत्याशा/पूर्वानुमान)
- (B) **Host** – It's a noun that means 'a person who receives or entertains other people as guests'. (मेज़बान)
- (C) **Atmosphere** – It's a noun that means 'the pervading tone or mood of a place, situation, or creative work'. (माहौल)
- After looking at the meanings of all the marked words we can conclude that 'host' should come in the first blank while 'atmosphere' and 'anticipation' should

come in the third and fourth blank respectively because the correct phrase in the context of the sentence is ' **atmosphere of anticipation** ' which means that the people present at the award ceremony had a feeling of excitement for the announcement of the award.

- **Therefore, the correct answer is 'BCA'.**

The correct sentence after rearrangement would be – **When the host(B) was about to announce the winner of the best actor award an atmosphere(C) of anticipation(A) vibrated through the crowd.**

10. Answer: d

Explanation:

The correct answer is option 4.

★ Key Points

The given sentence is –

Kolkata, with one the _____ (A) road space among the metropolis of the country, is _____ (B) dependent on metro railway services for _____ (C) movement of passengers.

- To answer the question let's first look at the meanings of all the marked words –
- (A) **Largely** – It's an **adverb** that means 'to a great extent; on the whole; mostly'. (काफी हद तक)
- (B) **Fast** – It's an **adjective** that means 'moving or capable of moving at high speed'. (तेज़)
- (C) **Lowest** – It's a **superlative adjective** that means 'below average in amount, extent, or intensity'. (निम्नतम)
- After looking at the meanings of all the marked words we can conclude that 'lowest' should come in the first blank because it is a superlative adjective and as per grammar rules, it should be preceded by the article 'the'.
- Also, 'largely' which is an adverb should come in the second blank because then it would be followed by the verb 'dependent' and 'fast' that is an adjective

should come in the third blank before the noun 'movement'.

- Therefore, the correct answer is 'CAB'.

The correct sentence after rearrangement would be – **Kolkata, with one the lowest(C) road space among the metropolis of the country, is largely(A) dependent on metro railway services for fast(B) movement of passengers.**

11. Answer: b

Explanation:

The correct answer is option 2.

★ Key Points

The given sentence is –

No country can go far if a _____ (A) proportion of its population is illiterate, unhealthy, or malnourished, all the _____ (B) that are developed today _____ (C) well in education, health, and nutrition.

- To answer the question let's first look at the meanings of all the marked words –
- (A) **Invested** – It's a **verb** that means 'devote (one's time, effort, or energy) to a particular undertaking with the expectation of a worthwhile result'. (निवेश)
- (B) **Significant** – It's an **adjective** that means 'sufficiently great or important to be worthy of attention; noteworthy'. (महत्वपूर्ण)
- (C) **Countries** – It's a **noun** that means 'nations with their own government, occupying a particular territory'.
- After looking at the meanings of all the marked words we can conclude that 'significant' which is an adjective should come in the first blank followed by the noun 'proportion'.
- Also, 'countries' should come in the second blank, and 'invested' should come in the third blank.
- Therefore, the correct answer is 'BCA'.

The correct sentence after rearrangement would be – No country can go far if a significant(B) proportion of its population is illiterate, unhealthy, or malnourished, all the countries(C) that are developed today invested(A) well in education, health, and nutrition.

12. Answer: e

Explanation:

The correct answer is option 5.

★ Key Points

The given sentence is –

If you suspect that 21st-century _____(A) has broken your brain, it will be _____(B) to know that _____(C) spans have never been what they used to be.

- To answer the question let's first look at the meanings of all the marked words –
- (A) **Technology** – It's a **noun** that means 'machinery and equipment developed from the application of scientific knowledge'. (तकनीकी)
- (B) **Reassuring** – It's an **adjective** that means 'serving or intended to remove someone's doubts or fears'. (आश्वासनपूर्ण)
- (C) **Attention** – It's a **noun** that means 'notice taken of someone or something; the regarding of someone or something as interesting or important'. (ध्यान)
- After looking at the meanings of all the marked words we can conclude that all the words are given in their right places and don't require any rearrangement.
- Therefore, the correct answer is 'No rearrangement required'.

13. Answer: b

Explanation:

The correct answer is option 2.

★ Key Points

The given sentence is -

Power is _____(A) for everyday operations in almost every _____(B) of modern life and power engineers help ensure that this power is _____(C) to people.

- To answer the question let's first look at the meanings of all the marked words -
- (A) **Accessible** - It's an **adjective** that means 'able to be easily obtained or used'. (सुलभ)
- (B) **Essential** - It's an **adjective** that means 'absolutely necessary; extremely important'. (आवश्यक)
- (C) **Facet** - It's a **noun** that means 'a particular aspect or feature of something'. (पहलू)
- After looking at the meanings of all the marked words we can conclude that the sentence talks about power being an important part of everyday operations and power engineers help ensure people get access to power.
- Thus, 'essential' will come in the first blank and 'facet' and 'accessible' will come in the second and third blank respectively.
- Therefore, the correct answer is 'BCA'.

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The correct sentence after rearrangement would be - **Power is essential(B) for everyday operations in almost every facet(C) of modern life and power engineers help ensure that this power is accessible(A) to people.**

14. Answer: a

Explanation:

The correct answer is option 1.

★ Key Points

The given sentence is –

The presence of foreign _____(A) in India will bring in an element of _____(B) and increase the standards and _____(C) of Indian institutions.

- To answer the question let's first look at the meanings of all the marked words –
- (A) **Competition** – It's a **noun** that means 'the activity or condition of striving to gain or win something by defeating or establishing superiority over others'.
(प्रतिस्पर्धा)
- (B) **Quality** – It's a noun that means 'the standard of something as measured against other things of a similar kind; the degree of excellence of something.'
(गुणवत्ता)
- (C) **Universities** – It's a **noun** that means 'a high-level educational institution in which students study for degrees and academic research is done'. (विश्वविद्यालय)
- After looking at the meanings of all the marked words we can conclude that 'universities' should come in the first blank because the sentence is talking about the foreign universities bringing in the element of competition in our country.
- Thus, 'competition' should come in the second blank and 'quality' should come in the third blank.
- Therefore, the correct answer is 'CAB'.

The correct sentence after rearrangement would be – The presence of foreign universities(C) in India will bring in an element of competition(A) and increase the standards and quality(B) of Indian institutions.

15. Answer: b

Explanation:

The correct Option is 2.

★ Key Points

- A. The brave young woman decided to **defy** the rules and pursue her dreams.

- In this sentence, "DEFY" is used as a verb. It means to openly resist or refuse to obey or adhere to something, in this case, the rules. The sentence portrays the act of the young woman challenging the rules and going against them in order to pursue her dreams.
- B. His actions openly **defied** the authority of the government.
 - Similarly, in this sentence, "DEFY" is used as a verb. It describes the act of openly resisting or challenging the authority of the government through one's actions. It implies that the person's actions were in direct opposition to the government's authority.
- C The officer was convicted for refusing to **defy** orders
 - In this sentence, "DEFY" is used as a verb as well. However, the meaning of "DEFY" in this sentence is different from the intended meaning. "DEFY" typically implies resistance or opposition to authority, but in this context, it suggests that the officer did not refuse to defy orders (meaning they followed the orders instead).
 - Therefore, Sentence C does not express the meaning of "DEFY" as intended.

16. Answer: e

Explanation:

The correct answer is Option 5.

★ Key Points

- A. She carefully held the **handle** of the door.
 - This sentence relates to the physical act of holding onto the handle of a door. It expresses the meaning of "HANDLE" as a noun referring to a part of an object that is meant to be held or operated. For example, a door handle is used to open or close a door.
- B. The detective found a crucial piece of evidence with his keen **handle** on the case.
 - This sentence uses "HANDLE" as a noun but in a figurative sense. It suggests that the detective had a strong understanding, control, or grasp of the

case. It implies that the detective had a good handle or command over the situation or problem at hand.

- C. He couldn't **handle** the pressure and decided to quit.
 - In this sentence, "HANDLE" is used as a verb. It indicates the ability or capacity to cope with or manage something. It suggests that the person in question was unable to deal with the pressure and subsequently chose to quit.

Now, let's determine the sentence(s) that express(es) the meaning of the word "HANDLE":

- Sentence A expresses the meaning of "HANDLE" as a noun referring to a part of an object that is meant to be held or operated. (For example, holding the handle of a door.)
- Sentence B expresses the meaning of "HANDLE" as a noun in a figurative sense, representing understanding, control, or grasp. (For example, having a keen handle on a case.)
- Sentence C uses "HANDLE" as a verb, indicating the ability to cope with or manage something. (For example, being unable to handle the pressure.)

Based on the analysis, the answer is: **All of the Above**

17. Answer: c

Explanation:

The correct answer is **the people reached Mumbai when**.

★ Key Points

- There are two errors in the bold part.
- Firstly, the term ' **people** ' is a collective noun. Collective nouns are used in the singular form. Therefore, ' **peoples** ' must be replaced by ' **people** ' in order to make the sentence correct.
- Secondly, ' **hardly** ' and ' **when** ' form a pair of coordinating conjunctions. Coordinating conjunctions join phrases, words, etc. of equal ranks. Therefore, '

when ' should be used instead of '**than** ' in order to make it a grammatically correct sentence.

- Among the choices available, option 3 replaces the bold part most appropriately.
- Hence, **option 3** is the correct answer.

The correct sentence is: Hardly had the people reached Mumbai when they were ordered to return to Delhi.

★ Additional Information

- **Hardly -when** is used in *past perfect tense* sentences as follows. Sometimes we use **Scarcely-when** in place of Hardly-when
 - **Hardly** had the race started **when** we started cheering.
 - **Scarcely** had you asked a question **when** he answered it.
- We can use '**no sooner- than**' as follows.
 - **No sooner** did we call him **than** he responded.

18. Answer: a

Explanation:

The correct answer is " is quite high and"

★ Key Points

- **Option 2** can be eliminated because 'too' must be followed by an infinitive (to + verb 1) which is not the case here.
 - The load was too heavy to lift.
- **Option 3** gets eliminated too because 'so' must be followed by 'that' which is again not the case here.
 - This country is so expensive that they had to live here cheek by jowl.
- **Option 4** gets eliminated because no comparison is made in the sentence and it gets confirmed by the absence of the preposition 'than' in the sentence.
- However, **option 1** replaces the bold part appropriately and thus becomes the best replacement among all.

- Hence, **option 1** is correct.

The correct sentence is: The cost of medical care in this country is quite high and they had to sell their land to pay for it.

19. Answer: c

Explanation:

The correct answer is "**The backbone of the organization's**"

★ Key Points

- The correct idiomatic expression in this sentence is '**the backbone of**' and not '**the backing bone in**'.
- **Be the backbone (Idiom):** The part of something that makes it successful or strong.
 - **Ex :** Ordinary volunteers form the *backbone* of most charitable organizations.
- Hence '**the backbone of**' should be used in place of '**the backing bone in**' to make the sentence grammatically correct.
- Among the given choices, only **option 3** replaces the given bold part most appropriately.
- Hence the correct answer is **Option 3**.

The correct sentence is: BJP is the country's only political party with a trained political human resource, which will serve as the backbone of the organization's workforce in the coming years.

20. Answer: d

Explanation:

The correct answer is **D**

★ Key Points

Reading the given sentences we find that:

The paragraph starts by introducing the Nuclear Power Corporation of India Limited, and my mentioning what it is; which is **D**.

Then statement **A** provides us more information regarding NPCIL that it is a dividend-paying company.

This is soon followed by statement **C** which elaborates on what NPCIL does, its responsibilities.

This is elaborated using the second statement that is the overriding priority given to safety as mentioned in **E**.

The paragraph ends by concluding the present operation of NPCIL i.e the number of power reactors and it's capacity, which is **B**.

Therefore the correct sequence is **DACEB**.

21. Answer: a

Explanation:

The correct answer is **A**.

★ Key Points

Reading the given sentences we find that:

The paragraph starts by introducing the Nuclear Power Corporation of India Limited, and my mentioning what it is; which is **D**.

Then statement **A** provides us more information regarding NPCIL that it is a dividend-paying company.

This is soon followed by statement **C** which elaborates on what NPCIL does, its responsibilities.

This is elaborated using the second statement that is the overriding priority given to safety as mentioned in E.

The paragraph ends by concluding the present operation of NPCIL i.e the number of power reactors and it's capacity, which is B.

Therefore the correct sequence is DACEB .

22. Answer: c

Explanation:

The correct answer is C.

★ Key Points

Reading the given sentences we find that:

The paragraph starts by introducing the Nuclear Power Corporation of India Limited, and my mentioning what it is; which is D.

Then statement A provides us more information regarding NPCIL that it is a dividend-paying company.

This is soon followed by statement C which elaborates on what NPCIL does, its responsibilities.

This is elaborated using the second statement that is the overriding priority given to safety as mentioned in E.

The paragraph ends by concluding the present operation of NPCIL i.e the number of power reactors and it's capacity, which is B.

Therefore the correct sequence is DACEB .

23. Answer: e

Explanation:

The correct answer is **E**.

★ Key Points

Reading the given sentences we find that:

The paragraph starts by introducing the Nuclear Power Corporation of India Limited, and my mentioning what it is; which is **D**.

Then statement **A** provides us more information regarding NPCIL that it is a dividend-paying company.

This is soon followed by statement **C** which elaborates on what NPCIL does, its responsibilities.

This is elaborated using the second statement that is the overriding priority given to safety as mentioned in **E**.

The paragraph ends by concluding the present operation of NPCIL i.e the number of power reactors and it's capacity, which is **B**.

Therefore the correct sequence is **DACEB**.

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24. Answer: b

Explanation:

The correct answer is **B**.

★ Key Points

Reading the given sentences we find that:

The paragraph starts by introducing the Nuclear Power Corporation of India Limited, and my mentioning what it is; which is **D**.

Then statement A provides us more information regarding NPCIL that it is a dividend-paying company.

This is soon followed by statement C which elaborates on what NPCIL does, its responsibilities.

This is elaborated using the second statement that is the overriding priority given to safety as mentioned in E.

The paragraph ends by concluding the present operation of NPCIL i.e the number of power reactors and its capacity, which is B.

Therefore the correct sequence is DACEB .

25. Answer: b

Explanation:

The Correct answer is Option B

- The error is **B part** of the sentence.
- In the given sentence word **north** is giving additional information ' regarding half of the country'
- Hence adverb form of **North** needs to be used, here **North** is to be replaced with ' **Northern** '

Correct answer – *Their most significant gains have been in the **northern** half of the country, a traditional stronghold of the U.S. allied warlords who helped defeat them in 2001 .*

26. Answer: c

Explanation:

The correct answer is option 3.



Key-Points

- The error is in the **C part** of the sentence.
- In the given sentence it is mentioned 'Policies and plans' which is in the plural form.
- Hence in **part C** , we need to replace **was** with **Were**.

Correct answer – *Policies and plans pertaining to transport and mobility, shelter, and social infrastructure **were** also discussed at the webinar held on Tuesday.*



Additional Information

- The Noun is Part of the sentence which defines persons, Place or things.
- Helping verbs in the sentence is decided with the help of a noun or subject.
- Helping verbs for a singular subject – am, is, was
- Helping verbs for a Plural subject – are, were

27. Answer: d

Explanation:

The correct answer is **option 4**.



Key-Points

- The error is in **part D** of the sentence. in the use of 'car, truck'
- car, truck needs to be considered in plural form with another mode of transportation to make the sentence meaningful.

Correct sentence – *The protesters will reach designated public locations by any means of transport including scooters, motorcycles, **tractors, cars, buses, trucks**.*



Additional Information

- The **noun** is Part of the sentence which defines **persons, Place or things**.
- Helping verbs in the sentence are decided with the help of a noun or subject.
- We cannot use a combination of singular and plural to describe common things. we either need to use singular or plural.

28. Answer: a

Explanation:

The Correct answer is Option A

- Error is part A of the sentence.
- adverb '**drasticly**' is incorrectly used.
- '**Drasticly**' is to be replaced with '**Drastic**'

Correct answer – After a **drastic** fall in demand for air travel from March onwards dueto the second wave of COVID19, there is now a steady rise in the number of daily passengers.

29. Answer: a

Explanation:

The correct answer is option 1.



Key-Points

- The error is in **Part A** of the sentence. The error is in the usage of the **Ministry**
- In the given sentence before ministry, it is mentioned '**several**'

- Hence there are more than one ministries
- Here, we need to replace ' **Ministry** ' with '**Ministries**'

Correct answer – *Several **ministries** have been clubbed together, sources say to increase synergy.*



Additional Information

- The noun is Part of the sentence which defines persons, Place or things.
- Helping verbs in the sentence is decided with the help of a noun or subject.

30. Answer: d

Explanation:

The correct answer is option 4.



Key-Points

- The error in **part D** of a sentence, the error is in the usage of **Many**debate
- '**Much**' is used when we are speaking about a singular noun.
- '**Many**' is used when we are speaking about a plural noun.
- When we speak about '**many**' and '**much**', it's worth mentioning countable and uncountable nouns.
- nouns can be used with a number and have singular and plural forms.

Correct answer– *While the expansion ofthe road and railway network there has been subject to **much** debate.*



Additional Information

- Adjective is the word which gives additional information regarding the noun.

31. Answer: e

Explanation:

Calculation:

$$\Rightarrow x^2 - 13x + 40 = 0$$

$$\Rightarrow x^2 - 8x - 5x + 40 = 0$$

$$\Rightarrow x(x - 8) - 5(x - 8) = 0$$

$$\Rightarrow (x - 8)(x - 5) = 0$$

$$\Rightarrow x = 8, 5$$

$$\Rightarrow y^2 - 13y + 42 = 0$$

$$\Rightarrow y^2 - 6y - 7y + 42 = 0$$

$$\Rightarrow y(y - 6) - 7(y - 6) = 0$$

$$\Rightarrow (y - 6)(y - 7) = 0$$

$$\Rightarrow y = 6, 7$$

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Value of x	Value of y	Relation
8	6	$x > y$
8	7	$x > y$
5	6	$x < y$
5	7	$x < y$

∴ The relation between x and y cannot be established

32. Answer: e

Explanation:

Calculation:

$$I. x^2 + 8x + 12 = 0$$

$$\Rightarrow x^2 + 6x + 2x + 12 = 0$$

$$\Rightarrow x(x + 6) + 2(x + 6) = 0$$

$$\Rightarrow (x + 6)(x + 2) = 0$$

$$\Rightarrow x = -6, -2$$

$$II. y^2 + 14y + 24 = 0$$

$$\Rightarrow y^2 + 12y + 2y + 24 = 0$$

$$\Rightarrow y(y + 12) + 2(x + 12) = 0$$

$$\Rightarrow (y + 12)(x + 2) = 0$$

$$\Rightarrow y = -12, -2$$

Comparison between x and y (via tabulation):

X	Y	Relation
-6	-12	$x > y$
-6	-2	$x < y$
-2	-12	$x > y$
-2	-2	$x = y$

$\therefore x = y$ or relationship between x and y cannot be established

33. Answer: c

Explanation:

Calculation:

$$1. x^2 - 9x + 18 = 0$$

$$\Rightarrow x^2 - 6x - 3x + 18 = 0$$

$$\Rightarrow x(x - 6) - 3(x - 6) = 0$$

$$\Rightarrow (x - 6) (x - 3) = 0$$

$$\Rightarrow x = 6, 3$$

$$\text{II. } y^2 - 15y + 56 = 0$$

$$\Rightarrow y^2 - 8y - 7y + 56 = 0$$

$$\Rightarrow y(y - 8) - 7(y - 8) = 0$$

$$\Rightarrow (y - 8) (y - 7) = 0$$

$$\Rightarrow y = 8, 7$$

Comparison between x and y (via tabulation):

X	Y	Relation
6	8	$x < y$
6	7	$x < y$
3	8	$x < y$
3	7	$x < y$

$$\therefore x < y$$

34. Answer: e

Explanation:

Given:

I. $x^2 - 35x + 124 = 0$

II. $y^2 + 21y - 130 = 0$

Calculation:

From I,

$$x^2 - 35x + 124 = 0$$

$$\Rightarrow x^2 - 31x - 4x + 124 = 0$$

$$\Rightarrow x(x - 31) - 4(x - 31) = 0$$

$$\Rightarrow (x - 31)(x - 4) = 0$$

Taking,

$$\Rightarrow (x - 31) = 0 \text{ or } (x - 4) = 0$$

$$\Rightarrow x = 31 \text{ or } 4$$

From II,

$$y^2 + 21y - 130 = 0$$

$$\Rightarrow y^2 + 26y - 5y - 130 = 0$$

$$\Rightarrow y(y + 26) - 5(y + 26) = 0$$

$$\Rightarrow (y + 26)(y - 5) = 0$$

Taking,

$$\Rightarrow (y + 26) = 0 \text{ or } (y - 5) = 0$$

$$\Rightarrow y = -26 \text{ or } 5$$

Comparison between x and y (via Tabulation):

Value of x	Value of y	Relation
31	-26	$x > y$
31	5	$x > y$
4	-26	$x > y$
4	5	$x < y$

$\therefore x = y$ or relation between x and y can not be established.

35. Answer: e

Explanation:

Given: Your Personal Exams Guide

I. $4x^2 + 18x + 20 = 0$

II. $3y^2 + 24y - 60 = 0$

Calculation:

From I

$$4x^2 + 18x + 20 = 0$$

$$\Rightarrow 2x^2 + 9x + 10 = 0$$

$$\Rightarrow 2x^2 + 4x + 5x + 10 = 0$$

$$\Rightarrow 2x(x + 2) + 5(x + 2) = 0$$

$$\Rightarrow (x + 2)(2x + 5) = 0$$

$$\Rightarrow x = -2, -5/2$$

From II

$$3y^2 + 24y - 60 = 0$$

$$\Rightarrow y^2 + 8y - 20 = 0$$

$$\Rightarrow y^2 + 10y - 2y - 20 = 0$$

$$\Rightarrow y(y + 10) - 2(y + 10) = 0$$

$$\Rightarrow (y + 10)(y - 2) = 0$$

$$\Rightarrow y = -10, 2$$

Comparison between x and y (via Tabulation)

Value of x	Value of y	Relation between x & y
-2	-10	$x > y$
-2	2	$x < y$
-5/2	-10	$x > y$
-5/2	2	$x < y$

$\therefore$ No relation in x and y or $x = y$

36. Answer: a

Explanation:

Given

Ratio of number of worker reduces = 7 : 4

Formula Used

Total Wages = number of worker $\times$ wages per person

Calculation

Total wages before reduction of workers = $7x \times 3y = 21xy$

Total wages after reduction of workers = $4x \times 5y = 20xy$

Ratio of wages (previous : now) = $21xy : 20xy = 21 : 20$

$\therefore$ The required answer is 21 : 20

37. Answer: a

Explanation:

Given

The average salary of all the Staff in a bank = Rs. 600

The average salary of all 12 officers = Rs. 4000

The average salary of the rest Staff = Rs. 560

Formula Used

Average = Sum of observation / No. of observation

Calculation

Let the number of rest of the staff in the Bank = x

Total salary of rest of staff members in the bank = Rs. $560x$

Total salary of 12 officers = $12 \times 4000 = \text{Rs. } 48000$

Total salary of all the staff of the bank = $600 (12 + x)$

$$\Rightarrow 48000 + 560x = 600(12 + x)$$

$$\Rightarrow 48000 + 560x = 7200 + 600x$$

$$\Rightarrow 600x - 560x = 40800$$

$$\Rightarrow 40x = 40800$$

$$\Rightarrow x = 1020$$

$\therefore$ The number of rest of the staff in the Bank is 1020

38. Answer: a

Explanation:

Given

Saurabh bought 45 kg rice price at = Rs.140

Saurabh bought 40 kg rice price at = Rs 155

Mixture cost price

$$\text{Cost price 45 kg} = 45 \times 140$$

$$\Rightarrow 6300$$

$$\text{Cost price 40 kg} = 40 \times 155$$

$$\Rightarrow 6200$$

$$\text{Cost price of mixture is} = 6300 + 6200$$

$$\Rightarrow \text{Rs. 12500}$$

$$\text{Total bought rice is} = 45 + 40$$

$$\Rightarrow 85 \text{ kg}$$

$$\text{Mixture per kg price is} = 12500/85$$

⇒ Rs. 147.06

∴ S.P. of the mixture per kg = $147 \times 80/100$

⇒ Rs. 117.6

= Rs. 118 (App.)

39. Answer: a

Explanation:

Given:

A can do the work in 18 days

B can do the work in 24 days

Calculation:

A can do work in 18 days

⇒ Work done by A in 1 day = $1/18$

⇒ Work done by A in 6 days = $6/18 = 1/3$

As, B worked for a total of 6 + 6 days

⇒ B can do work in 24 days

⇒ Work done by B in 1 day = $1/24$

⇒ Work done by B in 12 day = $12/24 = 1/2$

⇒ Total work done by A and B = $1/3 + 1/2$

⇒ Total work done = $5/6$

⇒ Remaining work = $1 - 5/6$

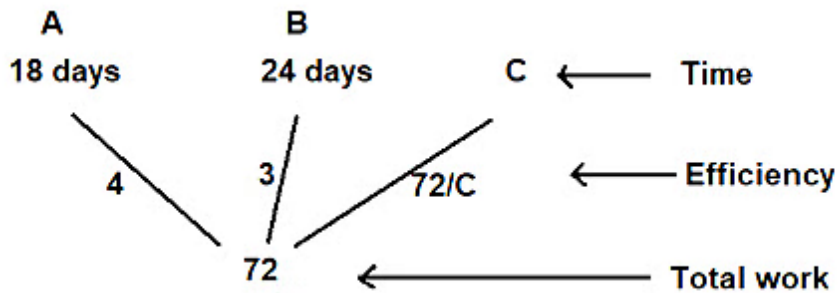
⇒ Remaining work = $1/6$

⇒ Remaining work is done by C in 6 days

⇒ $1/6$ work is done by C in 6 days

∴ C can do the work in 36 days.

Alternate Method:



Let total work = 72 units

⇒ A will complete $4 \times 6 = 24$ units in 6 days

⇒ B will complete $3 \times 12 = 36$ units in 12 days

⇒ Total work done by A and B = $24 + 36$ units

⇒ Total work done by A and B = 60 units

⇒ Remaining units = $72 - 60 = 12$ units

⇒ Remaining units is done by C in 6 days

⇒ C can do $12/6 = 2$ units in 1 day

⇒ $72/C = 2$

⇒ C = 36 days

∴ Work done by C in 36 days

40. Answer: e

Explanation:

Given:

A boat goes from point A to B upstream and returns to A through the same path

The time of journey from A to B is twice that of from B to A

Concept used:

Upstream speed = speed of boat – stream speed

Downstream speed = speed of boat + stream speed

Calculation:

According to the question, upstream time is double of the downstream time.

As distances in both the cases would be equal So, Speed will be the inverse of the time

$$\text{Speed upstream} = \text{Speed Downstream} \times (1/2)$$

$$\text{Speed of boat} - \text{stream speed} = (1/2) \times (\text{Speed of boat} + \text{stream speed})$$

$$\Rightarrow (1/2) \times \text{Speed of boat} = (3/2) \times \text{speed of the stream}$$

$$\Rightarrow \text{Speed of boat} = 3 \times \text{Speed of stream}$$

$\therefore$ The ratio of speed of the boat in still water to the speed of the current is 3 : 1

41. Answer: b

Explanation:

From the Pie chart data,

$$\text{Total number of employees in company D} = 18\% \times 3000 = 540$$

$$\text{Number of Male in Company D} = (3/5) \times 540 = 324$$

Number of Female in Company D = $(\frac{2}{5}) \times 540 = 215$

Similarly,

Company	Total Employees	Male Employees	Female Employees
A	720	432	288
B	480	288	192
C	600	360	240
D	540	324	216
E	660	396	264

Total number of Employees in company C = 600

Total number of Employees in company F is 110% of Employees in company C

Therefore, total number of Employees in company F = $110\% \times 600 = 660$

Hence, number of Female Employees in company F = $(\frac{2}{5}) \times 660 = 264$

42. Answer: d

Explanation:

From the Pie chart data,

Total number of employees in company D = $18\% \times 3000 = 540$

Number of Male in Company D = $(\frac{3}{5}) \times 540 = 324$

Number of Female in Company D = $(\frac{2}{5}) \times 540 = 215$

Similarly,

Company	Total Employees	Male Employees	Female Employees
A	720	432	288
B	480	288	192
C	600	360	240
D	540	324	216
E	660	396	264

The total % distribution of Company D is 18% out of total number of Employees in all the company.

Total angle formed at the center of the pie chart is 360°

Hence, Central Angle of Company D = $(18/100) \times 360^\circ = 64.8$

43. Answer: b

Explanation:

From the Piechart data,

Company	Total Employees	Male Employees	Female Employees
A	820	492	328
B	480	288	192
C	600	360	240
D	540	324	216
E	660	396	264

Total number of Employees in company B = $16\% \times 300 = 480$

number of males in company B = $(3/5) \times 480 = 288$

Total number of Employees in Company E = $22\% \times 300 = 660$

number of Male Employees in company E = $(\frac{3}{5}) \times 660 = 396$

Average number of Male Employees in company B and E = $(288 + 396) / 2 = 342$

44. Answer: b

Explanation:

From the Pie chart data,

Total number of employees in company D = $18\% \times 3000 = 540$

Number of Male in Company D = $(\frac{3}{5}) \times 540 = 324$

Number of Female in Company D = $(\frac{2}{5}) \times 540 = 216$

Similarly,

Company	Total Employees	Male Employees	Female Employees
A	720	432	288
B	480	288	192
C	600	360	240
D	540	324	216
E	660	396	264

Therefore, Required % = $(240 - 216) / 216 = 1/9 = 11.11\%$

45. Answer: c

Explanation:

From the Pie chart data,

Total number of employees in company D = $18\% \times 3000 = 540$

Number of Male in Company D = $(\frac{3}{5}) \times 540 = 324$

Number of Female in Company D = $(\frac{2}{5}) \times 540 = 216$

Similarly,

Company	Total Employees	Male Employees	Female Employees
A	720	432	288
B	480	288	192
C	600	360	240
D	540	324	216
E	660	396	264

Therefore, difference between number of Male and Female in Company D = $324 - 216 = 108$.

46. Answer: a

Explanation:

Given

Percentages of monthly income spent on traveling = 13%

Percentages of monthly income spent on household expenses = 27%

Percentages of monthly income spent on medical expenses = 35%

Percentages of monthly income spent on insurance = 5%

The family has the remaining amount as cash = Rs. 13200

Formula used

Total expenditure = Sum of all expenses

Calculation

Let the monthly income of the family = Rs 100

Total expenditure of family = $(13 + 27 + 35 + 5)\% = 80\%$

Savings of family = $(100 - 80)\%$ of 100 = Rs 20

Now, applying proportion

$\Rightarrow 20: 100::13200: x$

$\Rightarrow x = 100 \times 13200/20 = \text{Rs } 66000$

$\therefore$ Monthly income of family is Rs 66,000.

47. Answer: d

Explanation:

Given

Time of Kamal's and Raju's partnership = 3.5 years

Kamal's investment for 24 months = Rs. 7500

Total Profit for 3.5 years = 3000

Raju's profit for 3.5 years = 1400

Formula used

Calculation

Total time of Investment = 3.5 years = 42 months

Raju investment for months = Total time of investment – time of Kamal's investment

$$\Rightarrow 42 - 24 \text{ Months} = 18 \text{ Months}$$

Ratio of time period invested = Time of Kamal's investment: Time of Raju investment

$$\Rightarrow 24 : 18 = 4 : 3$$

$$\text{Ratio of share profit} = (3000 - 1400) : 1400 = 1600 : 1400 = 8 : 7$$

Let's Raju investment = Rs. X

So

$$7500 \times 4 / (X \times 3) = 8/7$$

$$X = 8750$$

$\therefore$ The amount invested by Raju is Rs. 8750.

48. Answer: c

Explanation:

Given:

Simple interest = Rs.400

Rate of interest =10%

Time = 2 years

Formula:

When calculated at simple interest

$$\text{Interest} = (p \times r \times t)/100$$

Where p, r and t respectively are principal, rate of interest and time

When calculate at compound interest

$$\text{Amount (A)} = p (1 + r/100)^n$$

Where p, r and n respectively are principal, rate of interest and time

$$\text{Interest} = \text{Amount} - \text{Principal}$$

Calculation:

Let the principal be P

$$\Rightarrow 400 = (P \times 10 \times 2)/100$$

$$\Rightarrow P = 2000$$

Now, the same sum is invested at same rate for 2 years at compound interest

$$\text{Amount} = 2000 \times (1 + 10/100)^2$$

$$\Rightarrow \text{Amount} = 2000 \times (11/10) \times (11/10) = 2420$$

$$\Rightarrow \text{Compound interest} = 2420 - 2000 = 420$$

$$\Rightarrow \text{Required Percentage} = [(420 - 400)/400] \times 100 = (20/400) \times 100 = 5\%$$

$\therefore$ Compound interest is greater than Simple interest by 5%

49. Answer: d

Explanation:

Given:

Total number of t-shirts = 150

Lost in transit = 40%

Formula used:

$$SP = [CP + (CP \times \text{profit}\%)]$$

$$SP = [CP - (CP \times \text{loss}\%)]$$

SP = selling price

CP = cost price

Calculation:

Let CP be Rs. $20x$

According to the question,

40% of the t-shirts are lost in transit

So, only $150 \times 60\% = 90$ t-shirts can be sold

45 t-shirts at 20% profit

$$\Rightarrow 45 \times 20x \times \frac{6}{5}$$

$$\Rightarrow 45 \times 24x$$

$$\Rightarrow 1080x$$

45 t-shirt at 5% loss

$$\Rightarrow 45 \times 20x \times \frac{19}{20}$$

$$\Rightarrow 45 \times 19x$$

$$\Rightarrow 855x$$

$$1080x + 855x = 7740$$

$$\Rightarrow 1935x = 7740$$

$$\Rightarrow x = 4$$

$$\Rightarrow 20x = 80$$

$$\Rightarrow CP = \text{Rs. } 80$$

$\therefore$ Cost price of each t-shirts is Rs. 80

50. Answer: c

Explanation:

Given:

Speed of the first train = x km/hr

Speed of the another train = $(x - 6)$ km/hr

The length of the another train = $\frac{3}{4} \times$ Length of first train

Length of platform = 300 meter

Formula used:

Total distance = Relative speed $\times$ Time

Calculation:

Suppose L be the length of train of which speed is x km/hr

Relative speed = $(x + x - 6) = (2x - 6)$ km/hr = $(2x - 6) \times \frac{5}{18}$ m/s

Therefore, total distance = $L + \frac{3L}{4} = \frac{7L}{4}$

$\Rightarrow \frac{7L}{4} = (2x - 6) \times \frac{5}{18} \times 21$

$\Rightarrow \frac{L}{4} = (2x - 6) \times \frac{5}{6}$

$\Rightarrow L = (2x - 6) \times \frac{20}{6}$ meter

Given, length of platform = 300 m

Length of train + Length of platform = speed of the second train $\times$ Time taken to cross

$\Rightarrow (2x - 6) \times \frac{20}{6} + 300 = [(x - 6) \times \frac{5}{18}] \times 42$

$\Rightarrow (2x - 6) \times \frac{10}{3} + 300 = (x - 6) \times \frac{35}{3}$

$$\Rightarrow 2x \times \frac{35}{3} - 6 \times \frac{35}{3} + 300 = x \times \frac{35}{3} - 6 \times \frac{35}{3}$$

$$\Rightarrow 5x = 350$$

$$\Rightarrow x = 70 \text{ km/hr}$$

$\therefore$ Speed of first train is 70 km/hr

51. Answer: b

Explanation:

Given,

Total number of boys including those from the five branches

$$= 500 + 500 + 450 + 200 + 300$$

$$= 1950$$

Required average

$$= 1950/5$$

$$= 390$$

52. Answer: d

Explanation:

Given,

Total number to girls including five branches

$$= 300 + 100 + 250 + 600 + 250$$

$$= 1500$$

Total number of boys including five branches

$$= 500 + 500 + 450 + 200 + 300$$

$$= 1950$$

Total number of students in College

$$= 1500 + 1950$$

$$= 3450$$

Required percentage

$$= (1500/3450) \times 100 \approx 43.48\%$$

53. Answer: c

Explanation:

Total number of students in Computer branch

$$= 200 + 600$$

$$= 800$$

Total number of students in Mechanical and Electronics branch

$$= (500 + 100) + (300 + 250)$$

$$= 1150$$

Required ratio

$$= 800 : 1150$$

$$= 32 : 46$$

$$= 16 : 23$$

54. Answer: b

Explanation:

Given,

Total number of boys including five branches

$$= 500 + 500 + 450 + 200 + 300$$

$$= 1950$$

Number of boy's students in Mechanical branch = 500

Required percentage

$$= (500/1950) \times 100 \approx 25.64\%$$

55. Answer: b

Explanation:

Given,

$$\text{Civil branch} = 500 : 300 = 5 : 3 = 1.66$$

$$\text{Mechanical branch} = 500 : 100 = 5 : 1 = 5$$

$$\text{Electrical branch} = 450 : 250 = 9 : 5 = 1.8$$

$$\text{Computer branch} = 200 : 600 = 1 : 3 = 0.33$$

$$\text{Electronics branch} = 300 : 250 = 6 : 5 = 1.2$$

From this,

Computer branch has minimum ratio of boys and girls students in College.

56. Answer: b

Explanation:

Tap P can fill a tank in 7 hours

Part of tank filled by tap P in 1 hour = $\frac{1}{7}$

Tap Q can fill a tank in 10 hours

Part of tank filled by tap Q in 1 hour = $\frac{1}{10}$

Tap R can empty a tank in 15 hours

Part of tank filled by tap R in 1 hour = $-\frac{1}{15}$

Net part of the tank filled per hour = $\left(\frac{1}{7} + \frac{1}{10} - \frac{1}{15}\right) = \frac{37}{210}$

Total time taken by taps to fill the tank completely = $\frac{210}{37} = 5\frac{25}{37}$ hours

$\therefore$ If all three pipes are opened simultaneously, total time taken by taps to fill in completely = $5\frac{25}{37}$ hours

57. Answer: b

Explanation:

Given:

The ratio of present age of Ram and Rohit is 7 : 8.

The ratio of age of Ram and Rohit after 6 years is 9 : 10.

Calculation:

Let the present age of Ram and Rohit is $7x$ and $8x$ respectively.

After 6 years, the age of Ram = $7x + 6$

After 6 years, the age of Rohit = $8x + 6$

The ratio of age of Ram and Rohit after 6 years is 9 : 10.

$$\Rightarrow (7x + 6)/(8x + 6) = 9/10$$

$$\Rightarrow 70x + 60 = 72x + 54$$

$$\Rightarrow 2x = 6$$

$$\Rightarrow x = 3$$

The age of Rohit after 10 years = $8 \times 3 + 10 = 24 + 10 = 34$ years

∴ The age of Rohit after 10 years is 34 years.

★ Alternate Method

Let the age of Ram and Rohit after 6 years is $9x$ and $10x$.

The present age of Ram = $9x - 6$

The present age of Rohit = $10x - 6$

The ratio of present age of Ram and Rohit is 7 : 8.

$$\Rightarrow (9x - 6)/(10x - 6) = 7/8$$

$$\Rightarrow 72x - 48 = 70x - 42$$

$$\Rightarrow 2x = 6$$

$$\Rightarrow x = 3$$

The age of Rohit after 10 years = $8 \times 3 + 10 = 24 + 10 = 34$ years

∴ The age of Rohit after 10 years is 34 years.

★ Shortcut Trick

The ratio of present age of Ram and Rohit is 7 : 8.

The ratio of age of Ram and Rohit after 6 years is 9 : 10.

The difference in ratio is 2 years

$$\Rightarrow 2 = 6$$

$$\Rightarrow 1 = 3$$

The age of Rohit after 10 years = $8 \times 3 + 10 = 24 + 10 = 34$ years

$\therefore$ The age of Rohit after 10 years is 34 years.

58. Answer: a

Explanation:

Given:

Total Distance = 48 km

Time taken = 1 hour and 40 minutes

Formula Used:

Speed = Distance/Time

Calculation:

Let the speed be x km/h.

$\Rightarrow$ Distance covered in 1 hr 40 min

$$\Rightarrow 5x/3 \text{ km}$$

Remaining distance = $48 - 5x/3$

Required equation,

$$\Rightarrow 5x/3 = 2/7(48 - 5x/3)$$

$$\Rightarrow 5x/3 = 2/7(144 - 5x/3)$$

$$\Rightarrow 35x = 2(144 - 5x)$$

$$\Rightarrow 35x + 10x = 288$$

$$\Rightarrow 45x = 288$$

$$\Rightarrow x = 288/45 \text{ km/h}$$

$$\text{Speed} = (288/45) \times 5/18$$

$$\Rightarrow 16/9 \text{ m/s}$$

$\therefore$ Her speed is $16/9 \text{ m/s}$.

59. Answer: a

Explanation:

Given:

Ratio of length of rectangular field and the side of the square field = 6 : 1

Breadth of the rectangular field = $1/3 \times$ Side of square field

Perimeter of the square = 120 m^2

Formula Used:

Perimeter of the rectangular field = $2(\text{length} + \text{breadth})$

Area of rectangular field = $\text{length} \times \text{breadth}$

Area of square = $\text{side} \times \text{side}$

Perimeter of square = $4 \times \text{side}$

Calculation:

Perimeter of square field = 120 m

Side of square field = $120/4 = 30 \text{ m}$

Breadth of rectangular field = $30/3 = 10$ m

Ratio of length of rectangular field and the side of the square field = 6:1

⇒ 1 unit = 30 m

⇒ 6 units = 180 m

So, the length of rectangular field = 180 m.

Perimeter of rectangular field = $2(180 + 10)$

⇒ $2(190)$

⇒ 380 m

∴ The cost of fencing the rectangular field at the rate of Rs. 20 per m = Rs. (380×20)

⇒ Rs. 7,600

60. Answer: b

Explanation:

Given:

The vessel A contains ratio of milk to water is 3 : 5.

The vessel B contains ratio of milk to water is 2 : 3.

The ratio of milk to water in the new mixture is 5 : 8.

Calculation:

The vessel A contains ratio of milk to water as 3 : 5.

According to the question;

32 litres of mixture from vessel A is taken out.

The quantity of milk from vessel A is taken out = $(\frac{3}{8}) \times 32 = 12$ litres

The quantity of water from vessel A is taken out = $(\frac{5}{8}) \times 32 = 20$ litres.

The x litre of mixture from vessel B is taken out.

The vessel B contains ratio of milk to water is 2 : 3.

The quantity of milk from vessel B is taken out = $(\frac{2}{5}) \times x = \frac{2x}{5}$

The quantity of water from vessel B is taken out = $(\frac{3}{5}) \times x = \frac{3x}{5}$

The ratio of milk to water in the new mixture is 5 : 8.

$$\Rightarrow [12 + (\frac{2x}{5})] / [20 + (\frac{3x}{5})] = \frac{5}{8}$$

$$\Rightarrow 96 + (\frac{16x}{5}) = 100 + 3x$$

$$\Rightarrow \frac{x}{5} = 4$$

$$\Rightarrow x = 20 \text{ litres}$$

$\therefore$ The value of x is 20 litres.

61. Answer: b

Explanation:

Given:

$$9.78\% \text{ of } 79.94 + ?\% \text{ of } 9.67 = 10.94 \times 2.99 + \sqrt{100} \times 2.98$$

Concept used:

Follow the BODMAS rule according to the table given below:

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (−)	घटाव (−)

Calculation:

$$9.78\% \text{ of } 79.94 + ?\% \text{ of } 9.67 = 10.94 \times 2.99 + \sqrt{100} \times 2.98$$

$$\Rightarrow 10\% \text{ of } 80 + ?\% \text{ of } 10 = 11 \times 3 + \sqrt{100} \times 3$$

$$\Rightarrow (10/100) \times 80 + (?/100) \times 10 = 33 + 10 \times 3$$

$$\Rightarrow 8 + (?/10) = 33 + 30$$

$$\Rightarrow 8 + (?/10) = 63$$

$$\Rightarrow (?/10) = 63 - 8$$

$$\Rightarrow (?/10) = 55$$

$$\Rightarrow ? = 55 \times 10 = 550$$

$\therefore$ The value of ? is 550.

62. Answer: d

Explanation:

Given:

$$49.97\% \text{ of } 1900.1 + (7.99) 3 \times 4.97 + ? = (5.03) 3 \times 27.98$$

Concept used:

Rules of Approximation:

1. If a number has digits to the right of the decimal less than 5, then just drop the digits to the right of the decimal. The number so obtained will be the approximated value.
2. If a number has digits to the right of the decimal more than 5, then just drop the digits to the right of the decimal and raise the remaining number by '1'. The number so obtained will be the approximated value.

Follow the BODMAS rule according to the table given below:

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (−)	घटाव (−)

Calculation:

$$49.97\% \text{ of } 1900.1 + (7.99) 3 \times 4.97 + ? = (5.03) 3 \times 27.98$$

$$\Rightarrow 50\% \text{ of } 1900 + 8^3 \times 5 + ? = 5^3 \times 28$$

$$\Rightarrow (50/100) \times 1900 + 512 \times 5 + ? = 125 \times 28$$

$$\Rightarrow 950 + 2560 + ? = 3500$$

$$\Rightarrow 3510 + ? = 3500$$

$$\Rightarrow ? = 3500 - 3510$$

$$\Rightarrow ? = -10$$

∴ The value of ? is -10.

63. Answer: d

Explanation:

Given:

$$15.67 \times 62.5\% - 12.5 \times 7.99\% + 24.2 \div 6 = 50.01 \div 5.12 + ?$$

Concept used:

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Calculation:

$$15.67 \times 62.5\% - 12.5 \times 7.99\% + 24.2 \div 6 = 50.01 \div 5.12 + ?$$

$$\Rightarrow 16 \times (5/8) - 12.5 \times (8/100) + 24/6 = 50/5 + ?$$

$$\Rightarrow 10 - 1 + 4 = 10 + ?$$

$$\Rightarrow ? = 10 - 1 + 4 - 10$$

$$\Rightarrow ? = 3$$

∴ The value of ? is 3.

64. Answer: b

Explanation:

Given:

$$37.98\% \text{ of } 549.99 + \sqrt{(49.02)} \div ? = 7.99 \times (2.97)^3$$

Rules of Approximation:

1. If a number has digits to the right of the decimal less than 5, then just drop the digits to the right of the decimal. The number so obtained will be the approximated value.
2. If a number has digits to the right of the decimal more than 5, then just drop the digits to the right of the decimal and raise the remaining number by '1'. The number so obtained will be the approximated value.

Concept used:

Follow the BODMAS rule according to the table given below:

B	Brackets in order (), {}, []	ब्रैकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (−)	घटाव (−)

Calculation:

$$37.98\% \text{ of } 549.99 + \sqrt{(49.02)} \div ? = 7.99 \times (2.97)^3$$

$$\Rightarrow 38\% \text{ of } 550 + \sqrt{49} \div ? = 8 \times 3^3$$

$$\Rightarrow (38/100) \times 550 + 7 \div ? = 8 \times 27$$

$$\Rightarrow 209 + 7 \div ? = 216$$

$$\Rightarrow 7 \div ? = 7$$

$$\Rightarrow ? = 1$$

$\therefore$ 1 should come in place of the question mark (?).

65. Answer: c

Explanation:

Solution :

Concept used :

Follow the BODMAS rule to solve this question, as per the question is given below:

Step 1: Parts of an equation enclosed in ' Brackets ' must be solved first and in the bracket,

Step 2: Any mathematical ' of ' or 'exponent' must be solved next,

Step 3: Next, The part of the equation that contains 'Division' and 'multiplication' are calculated,

Step 4: Last but not least, the parts of the equation that contains 'Addition ' and 'Subtraction' should be calculated

Given :

$$\Rightarrow (22.03\% \text{ of } 150.01) + (361.33)^{1/2} + (63.92 \div 2.012) + (11.02\% \text{ of } 499.98) = ?$$

Approximate the number to its nearest value

$$\Rightarrow (22\% \text{ of } 150) + (361)^{1/2} + (64 \div 2) + (11\% \text{ of } 500) = ?$$

$$\Rightarrow 22 \times 150 / 100 + (19)^{2 \times 1/2} + 32 + 11 \times 500 / 100 = ?$$

$$\Rightarrow 33 + 19 + 32 + 55 = ?$$

$$\Rightarrow 84 + 55 = ?$$

$$\Rightarrow ? = 139$$

Hence 139 is the correct answer.

66. Answer: e

Explanation:

Given:

6 people – A, B, C, P, Q, and R

6 subjects – Physics, History, Maths, Biology, English, and Chemistry

1. B had his performance review on the 26th of July.
2. 2 people had their reviews between the Physics teacher and B.
3. The English teacher had his review in December.

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Months	Dates	Case 1 (a)		Case 1 (b)	
		Persons	Subject	Persons	Subject
March	14		Physics		Physics
	26				
July	14				
	26	B		B	
December	14		English		
	26				English

4. The Biology teacher had his performance review after the Maths teacher in the same month.
5. The History teacher had his review before A, who did not teach Chemistry.
6. 4 people had their reviews between P and C, who did not teach Physics.

Months	Dates	Case 1 (a. 1)		Case 1 (a. 2)		Case 1 (b)	
		Persons	Subject	Persons	Subject	Persons	Subject
March	14	P	Physics	P	Physics	P	Physics
	26		History		History		History
July	14	A	Maths		Maths	A	Maths
	26	B	Biology	B	Biology	B	Biology
December	14		English	A	English		Chemistry
	26	C	Chemistry	C	Chemistry	C	English

7. C was not the English teacher but had his review immediately after Q.

8. R did not teach Biology.

Months	Dates	Case 1 (a)	
		Persons	Subject
March	14	P	Physics
	26	R	History
July	14	A	Maths
	26	B	Biology
December	14	Q	English
	26	C	Chemistry

(A is allocated on July 14 because Point 5 state 'the History teacher had his review before A'.)

(Case 1 (a.2) and Case 1(b) will not be possible as it will not satisfy point 7.)

Final arrangement:

Months	Dates	Persons	Subject
March	14	P	Physics
	26	R	History
July	14	A	Maths
	26	B	Biology
December	14	Q	English
	26	C	Chemistry

Hence, A is the Maths teacher.

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67. Answer: e

Explanation:

Given:

6 people – A, B, C, P, Q, and R

6 subjects – Physics, History, Maths, Biology, English, and Chemistry

1. B had his performance review on the 26th of July.
2. 2 people had their reviews between the Physics teacher and B.
3. The English teacher had his review in December.

Months	Dates	Case 1 (a)		Case 1 (b)	
		Persons	Subject	Persons	Subject
March	14		Physics		Physics
	26				
July	14				
	26	B		B	
December	14		English		
	26				English

4. The Biology teacher had his performance review after the Maths teacher in the same month.
5. The History teacher had his review before A, who did not teach Chemistry.
6. 4 people had their reviews between P and C, who did not teach Physics.

Months	Dates	Case 1 (a. 1)		Case 1 (a. 2)		Case 1 (b)	
		Persons	Subject	Persons	Subject	Persons	Subject
March	14	P	Physics	P	Physics	P	Physics
	26		History		History		History
July	14	A	Maths		Maths	A	Maths
	26	B	Biology	B	Biology	B	Biology
December	14		English	A	English		Chemistry
	26	C	Chemistry	C	Chemistry	C	English

7. C was not the English teacher but had his review immediately after Q.

8. R did not teach Biology.

Months	Dates	Case 1 (a)	
		Persons	Subject
March	14	P	Physics
	26	R	History
July	14	A	Maths
	26	B	Biology
December	14	Q	English
	26	C	Chemistry

(A is allocated on July 14 because Point 5 state 'the History teacher had his review before A'.)

(Case 1(a.2) and Case 1(b) will not be possible as it will not satisfy point 7.)

Final arrangement:

Months	Dates	Persons	Subject
March	14	P	Physics
	26	R	History
July	14	A	Maths
	26	B	Biology
December	14	Q	English
	26	C	Chemistry

R is the History teacher.

C is the Chemistry teacher.

Hence, 3 people had their review between R and C.

68. Answer: e

Explanation:

Given:

6 people – A, B, C, P, Q, and R

6 subjects – Physics, History, Maths, Biology, English, and Chemistry

1. B had his performance review on the 26th of July.
2. 2 people had their reviews between the Physics teacher and B.
3. The English teacher had his review in December.

Months	Dates	Case 1 (a)		Case 1 (b)	
		Persons	Subject	Persons	Subject
March	14		Physics		Physics
	26				
July	14				
	26	B		B	
December	14		English		
	26				English

4. The Biology teacher had his performance review after the Maths teacher in the same month.
5. The History teacher had his review before A, who did not teach Chemistry.
6. 4 people had their reviews between P and C, who did not teach Physics.

Months	Dates	Case 1 (a. 1)		Case 1 (a. 2)		Case 1 (b)	
		Persons	Subject	Persons	Subject	Persons	Subject
March	14	P	Physics	P	Physics	P	Physics
	26		History		History		History
July	14	A	Maths		Maths	A	Maths
	26	B	Biology	B	Biology	B	Biology
December	14		English	A	English		Chemistry
	26	C	Chemistry	C	Chemistry	C	English

7. C was not the English teacher but had his review immediately after Q.

8. R did not teach Biology.

Months	Dates	Case 1 (a)	
		Persons	Subject
March	14	P	Physics
	26	R	History
July	14	A	Maths
	26	B	Biology
December	14	Q	English
	26	C	Chemistry

(A is allocated on July 14 because Point 5 state 'the History teacher had his review before A'.)

(Case 1 (a.2) and Case 1(b) will not be possible as it will not satisfy point 7.)

Final arrangement:

Months	Dates	Persons	Subject
March	14	P	Physics
	26	R	History
July	14	A	Maths
	26	B	Biology
December	14	Q	English
	26	C	Chemistry

Hence, C is the Chemistry teacher.

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69. Answer: e

Explanation:

Given:

6 people – A, B, C, P, Q, and R

6 subjects – Physics, History, Maths, Biology, English, and Chemistry

1. B had his performance review on the 26th of July.
2. 2 people had their reviews between the Physics teacher and B.
3. The English teacher had his review in December.

Months	Dates	Case 1 (a)		Case 1 (b)	
		Persons	Subject	Persons	Subject
March	14		Physics		Physics
	26				
July	14				
	26	B		B	
December	14		English		
	26				English

4. The Biology teacher had his performance review after the Maths teacher in the same month.
5. The History teacher had his review before A, who did not teach Chemistry.
6. 4 people had their reviews between P and C, who did not teach Physics.

Months	Dates	Case 1 (a. 1)		Case 1 (a. 2)		Case 1 (b)	
		Persons	Subject	Persons	Subject	Persons	Subject
March	14	P	Physics	P	Physics	P	Physics
	26		History		History		History
July	14	A	Maths		Maths	A	Maths
	26	B	Biology	B	Biology	B	Biology
December	14		English	A	English		Chemistry
	26	C	Chemistry	C	Chemistry	C	English

7. C was not the English teacher but had his review immediately after Q.

8. R did not teach Biology.

Months	Dates	Case 1 (a)	
		Persons	Subject
March	14	P	Physics
	26	R	History
July	14	A	Maths
	26	B	Biology
December	14	Q	English
	26	C	Chemistry

(A is allocated on July 14 because Point 5 states 'the History teacher had his review before A'.)

(Case 1 (a.2) and Case 1(b) will not be possible as it will not satisfy point 7.)

Final arrangement:

Months	Dates	Persons	Subject
March	14	P	Physics
	26	R	History
July	14	A	Maths
	26	B	Biology
December	14	Q	English
	26	C	Chemistry

Hence, Q – the English teacher, had his review on December 14.

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70. Answer: e

Explanation:

Given:

6 people – A, B, C, P, Q, and R

6 subjects – Physics, History, Maths, Biology, English, and Chemistry

1. B had his performance review on the 26th of July.
2. 2 people had their reviews between the Physics teacher and B.
3. The English teacher had his review in December.

Months	Dates	Case 1 (a)		Case 1 (b)	
		Persons	Subject	Persons	Subject
March	14		Physics		Physics
	26				
July	14				
	26	B		B	
December	14		English		
	26				English

4. The Biology teacher had his performance review after the Maths teacher in the same month.
5. The History teacher had his review before A, who did not teach Chemistry.
6. 4 people had their reviews between P and C, who did not teach Physics.

Months	Dates	Case 1 (a. 1)		Case 1 (a. 2)		Case 1 (b)	
		Persons	Subject	Persons	Subject	Persons	Subject
March	14	P	Physics	P	Physics	P	Physics
	26		History		History		History
July	14	A	Maths		Maths	A	Maths
	26	B	Biology	B	Biology	B	Biology
December	14		English	A	English		Chemistry
	26	C	Chemistry	C	Chemistry	C	English

7. C was not the English teacher but had his review immediately after Q.

8. R did not teach Biology.

Months	Dates	Case 1 (a)	
		Persons	Subject
March	14	P	Physics
	26	R	History
July	14	A	Maths
	26	B	Biology
December	14	Q	English
	26	C	Chemistry

(A is allocated on July 14 because Point 5 states 'the History teacher had his review before A'.)

(Case 1 (a.2) and Case 1 (b) will not be possible as it will not satisfy point 7.)

Final arrangement:

Months	Dates	Persons	Subject
March	14	P	Physics
	26	R	History
July	14	A	Maths
	26	B	Biology
December	14	Q	English
	26	C	Chemistry

Hence, P – the Physics teacher, had the first performance review.

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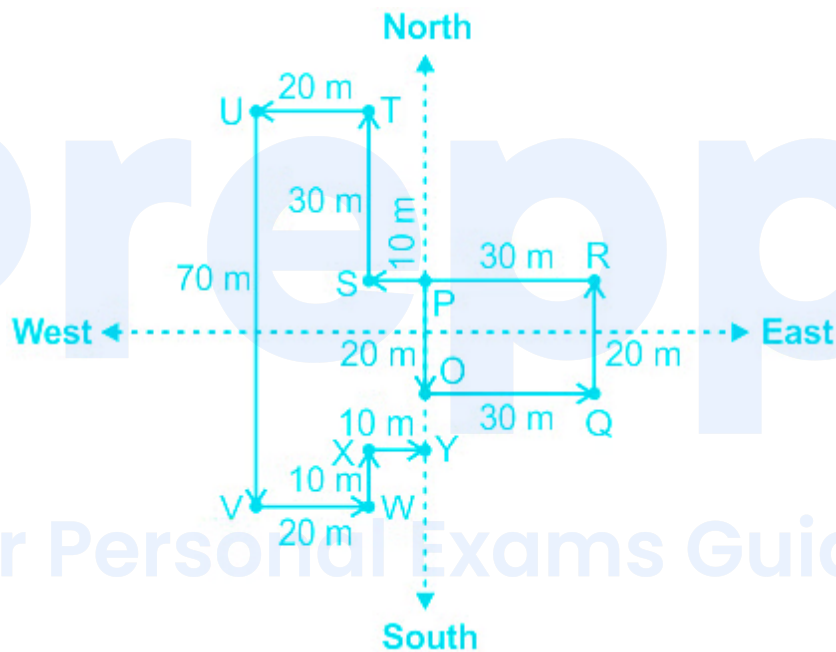
71. Answer: c

Explanation:

- 1) Starting from point P, Yuvraj walked 20 meters toward the South and reached point O.
- 2) He turned left and walked 30 meters and reached point Q.
- 3) He then turned left and walked 20 meters and reached point R.
- 4) He again turned left and walked 40 meters and reached point S.

- 5) Then he turned right and walked for 30 meters and reached point T.
- 6) He again turned left and walked 20 meters and reached point U.
- 7) Then he turned left and walked 70 meters and reached point V.
- 8) From there he turned left and walked 20 meters and reached point W.
- 9) Then he turned left and walked 10 meters and reached point X.
- 10) At last he turned right and walked 10 meters and reached point Y.

Drawn the figure according to the information given in the question:



Distance from P to S = 10m , S to T= 30m, T to U= 20m, U to V= 70m,

$$10 + 30 + 20 + 70 = 130 \text{ meters}$$

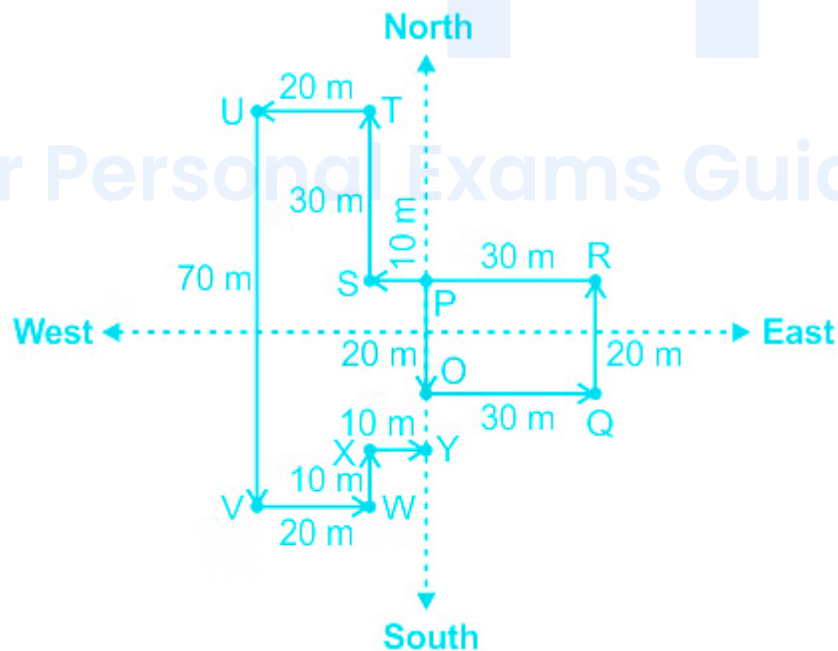
Hence, the total distance traveled by Yuvraj from starting point P to point V is 130 m.

72. Answer: a

Explanation:

- 1) Starting from point P, Yuvraj walked 20 meters toward the South and reached point O.
- 2) He turned left and walked 30 meters and reached point Q.
- 3) He then turned left and walked 20 meters and reached point R.
- 4) He again turned left and walked 40 meters and reached point S.
- 5) Then he turned right and walked for 30 meters and reached point T.
- 6) He again turned left and walked 20 meters and reached point U.
- 7) Then he turned left and walked 70 meters and reached point V.
- 8) From there he turned left and walked 20 meters and reached point W.
- 9) Then he turned left and walked 10 meters and reached point X.
- 10) At last he turned right and walked 10 meters and reached point Y.

Drawn the figure according to the information given in the question:



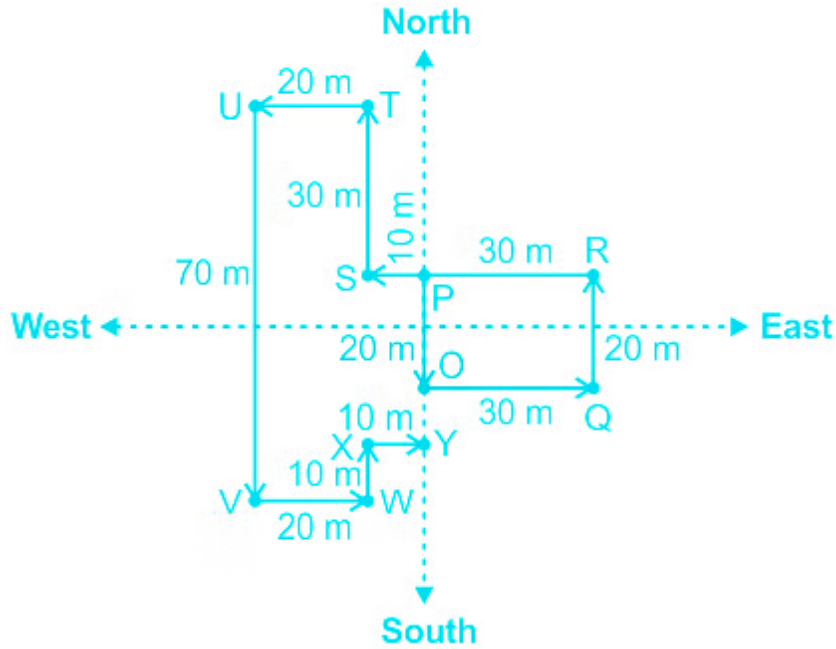
Hence, **Point S is North – East of O.**

73. Answer: c

Explanation:

- 1) Starting from point P, Yuvraj walked 20 meters toward the South and reached point O.
- 2) He turned left and walked 30 meters and reached point Q.
- 3) From point Q he turned left and walked 20 meters and reached point R.
- 4) He again turned left and walked 40 meters and reached point S.
- 5) Then he turned right and walked for 30 meters and reached point T.
- 6) He again turned left and walked 20 meters and reached point U.
- 7) Then he turned left and walked 70 meters and reached point V.
- 8) From there he turned left and walked 20 meters and reached point W.
- 9) Then he turned left and walked 10 meters and reached point X.
- 10) At last he turned right and walked 10 meters and reached point Y.

Drawn the figure according to the information given in the question:



Hence, Q is in North-East direction of Y.

74. Answer: c

Explanation:

Given:

All people sit facing North.

1. A sits at the right end of the row.
2. Nobody sits to the left of R.
3. T sits 3 rd from one of the ends of the row, 7 places away from R.



4. P sits 2 nd to the right of R.
5. Q sits immediately between X and T.
6. One person sits between X and B, who has 4 people sit between him and Z.
7. U sits 3 rd to the left of S.



Hence, B and S sit between P and S.

75. Answer: b

Explanation:

Given:

All people sit facing North.

1. A sits at the right end of the row.
2. Nobody sits to the left of R.
3. T sits 3 rd from one of the ends of the row, 7 places away from R.



4. P sits 2 nd to the right of R.
5. Q sits immediately between X and T.
6. One person sits between X and B, who has 4 people sit between him and Z.
7. U sits 3 rd to the left of S.



Hence, 10 people sit in the row.

76. Answer: d

Explanation:

Given:

All people sit facing North.

1. A sits at the right end of the row.
2. Nobody sits to the left of R.
3. T sits 3rd from one of the ends of the row, 7 places away from R.



4. P sits 2nd to the right of R.
5. Q sits immediately between X and T.
6. One person sits between X and B, who has 4 people sit between him and Z.
7. U sits 3rd to the left of S.



R sits at the left end of the row.
X sits 5th to the right of R.

Hence, B sits 2nd to the left of X.

Your Personal Exams Guide

77. Answer: c

Explanation:

Given: CUSTOMER

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Word	C	U	S	T	O	M	E	R
Position	3	21	19	20	15	13	5	18

Here, **Two pairs** of letters are there in the word 'CUSTOMER', each of which has as many letters between them in the word (both forward and backward direction) as they have between them in the English Alphabet.

Hence, **Two pairs** is the correct answer.

78. Answer: b

Explanation:

Nine people viz; G, H, I, J, K, L, M, N and O

three different department viz; Marketing, Finance and Admin.

Minimum 2 people and maximum 4 people are working in a department.

1. G is working in Finance.

2. M is not working in Marketing and not with G also.

3. O is working with G.

4. I is not working in Admin.

	Case-1	Case-2
Department	Person	Person
Marketing	I	
Finance	G, O	G, I, O
Admin	M	L

5. N is not working in Marketing.
6. N is not working with K.
7. H and K working together but not in Marketing.
8. J neither works in Finance nor with M.

	Case-1a	Case-1b	Case-2
Department	Person	Person	Person
Marketing	I, J	I, J	J
Finance	G, N, O	G, O, H, K	I, G, O, N
Admin	M, H, K	M, N	M, H, K

9. L is working with only one person. So, case-1a and case-1b gets eliminated.
- So, Final arrangement is,

Department	Person
Marketing	J, L
Finance	I, G, O, N
Admin	M, H, K

Hence, In Finance department maximum number of people working.

79. Answer: a

Explanation:

Nine people viz; G, H, I, J, K, L, M, N and O

three different department viz; Marketing, Finance and Admin.

Minimum 2 people and maximum 4 people are working in a department.

1. G is working in Finance.
2. M is not working in Marketing and not with G also.
3. O is working with G.
4. I is not working in Admin.

	Case-1	Case-2
Department	Person	Person
Marketing	I	
Finance	G, O	G, I, O
Admin	M	L

5. N is not working in Marketing.
6. N is not working with K.
7. H and K working together but not in Marketing.
8. J neither works in Finance nor with M.

	Case-1a	Case-1b	Case-2
Department	Person	Person	Person
Marketing	I, J	I, J	J
Finance	G, N, O	G, O, H, K	I, G, O, N
Admin	M, H, K	M, N	M, H, K

9. L is working with only one person. So, case-1a and case-1b gets eliminated.

So, Final arrangement is,

Department	Person
Marketing	J, L
Finance	I, G, O, N
Admin	M, H, K

Hence, **H** works in **Admin**.

80. Answer: d

Explanation:

Nine people viz; G, H, I, J, K, L, M, N and O

three different department viz; Marketing, Finance and Admin.

Minimum 2 people and maximum 4 people are working in a department.

1. G is working in Finance.

2. M is not working in Marketing and not with G also.

3. O is working with G.

4. I is not working in Admin.

	Case-1	Case-2
Department	Person	Person
Marketing	I	
Finance	G, O	G, I, O
Admin	M	L

5. N is not working in Marketing.

6. N is not working with K.

7. H and K working together but not in Marketing.

8. J neither works in Finance nor with M.

	Case-1a	Case-1b	Case-2
Department	Person	Person	Person
Marketing	I, J	I, J	J
Finance	G, N, O	G, O, H, K	I, G, O, N
Admin	M, H, K	M, N	M, H, K

9. L is working with only one person. So, case-1a and case-1b gets eliminated.

So, Final arrangement is,

Department	Person
Marketing	J, L
Finance	I, G, O, N
Admin	M, H, K

Hence, **J works with L.**

81. **Answer: c**

Explanation:

Nine people viz; P, Q, R, S, T, U, V, W, and X.

three different department viz; Marketing, Finance and Admin.

Minimum 2 people and maximum 4 people are working in a department.

1- G is working in Finance.

2- M is not working in Marketing and not with G also.

3- O is working with G.

4- I is not working in Admin.

	Case-1	Case-2
Department	Person	Person
Marketing	I	
Finance	G, O	G, I, O
Admin	M	L

5- N is not working in Marketing.

6- N is not working with K.

7- H and K working together but not in Marketing.

8- J neither works in Finance nor with M.

	Case-1a	Case-1b	Case-2
Department	Person	Person	Person
Marketing	I, J	I, J	J
Finance	G, N, O	G, O, H, K	I, G, O, N
Admin	M, H, K	M, N	M, H, K

9- L is working with only one person. So, case-1a and case-1b gets eliminated.

So, Final arrangement is,

Department	Person
Marketing	J, L
Finance	I, G, O, N
Admin	M, H, K

Hence, Department of J has least number of people working.

82. Answer: e

Explanation:

Nine people viz; G, H, I, J, K, L, M, N and O

three different department viz; Marketing, Finance and Admin.

Minimum 2 people and maximum 4 people are working in a department.

1. G is working in Finance.

2. M is not working in Marketing and not with G also.

3. O is working with G.

4. I is not working in Admin.

	Case-1	Case-2
Department	Person	Person
Marketing	I	
Finance	G, O	G, I, O
Admin	M	L

5. N is not working in Marketing.

6. N is not working with K.

7. H and K working together but not in Marketing.

8. J neither works in Finance nor with M.

	Case-1a	Case-1b	Case-2
Department	Person	Person	Person
Marketing	I, J	I, J	J
Finance	G, N, O	G, O, H, K	I, G, O, N
Admin	M, H, K	M, N	M, H, K

9. L is working with only one person. So, case-1a and case-1b gets eliminated.

So, Final arrangement is,

Department	Person
Marketing	J, L
Finance	I, G, O, N
Admin	M, H, K

Hence, **Both I and G works in Finance.**

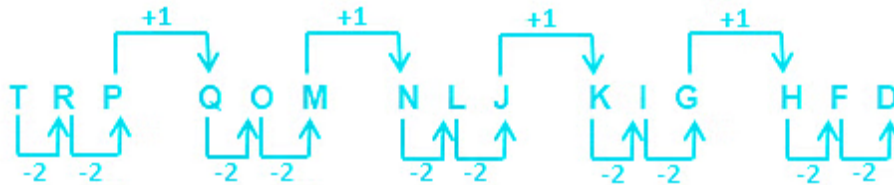
83. **Answer: c**

Explanation:

Table show alphabet serial number –

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic is shown below –

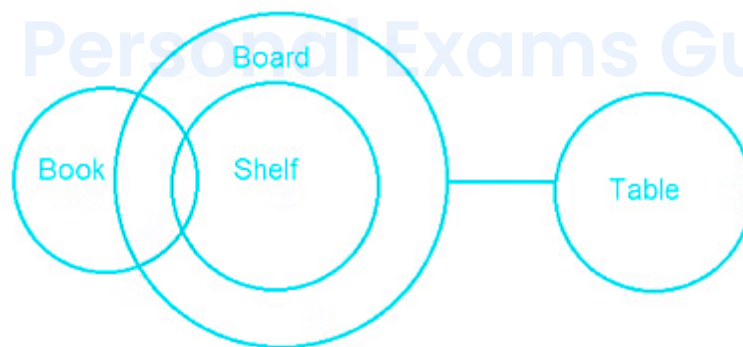


Hence, "HFD" is the missing term which completes the series.

84. Answer: c

Explanation:

The least possible Venn diagram for the given statements is as follows,



Conclusion:

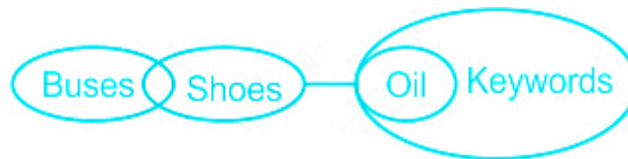
- I. No shelf is table → True (as all shelf are board and no board is table)
- II. Some board are book → True (as all each shelf is board and some shelf are book)

Hence, both I and II follow.

85. Answer: a

Explanation:

The least possible Venn diagram for the given statements is as,



Conclusion:

- I. Some Buses are not Oil $\rightarrow$ True (as no shoes are oil and some buses are shoes. This imply that part of the bus that is shoes definitely not oil. Hence, true).
 - II. Some Keywords are Shoes $\rightarrow$ False (It is possible but not definite as there is no direct relation between Keywords and Shoes).
- Hence, **only conclusion I follow.**

86. Answer: b

Explanation:

The least possible Venn diagram;



Conclusion:

- I. All Boys being Girls is a possibility $\rightarrow$ False (because Only a few Boys are Girls which means there is a condition that some boys are girls but some boys are not girls also.)
 - II. Some Men are Girls $\rightarrow$ True (As Some Girls are Women and All Women are Men. Imply that some Men are Girls).
- Hence, **Only conclusion II follows.**

87. Answer: d

Explanation:

Fourteen people .

A, B, C, D, E, F and G are sitting in row-2 and facing South.

P, Q, R, S, T, U and V Are sitting in row-1 and facing North.

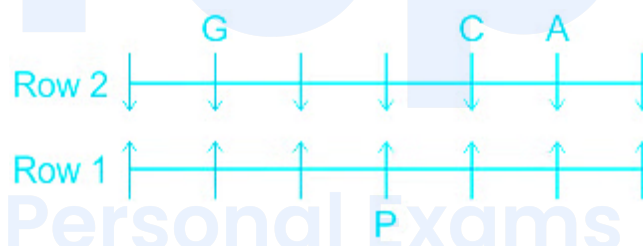
1- G is second from one end.

2- Only one people is sitting between P and the one who is facing G.

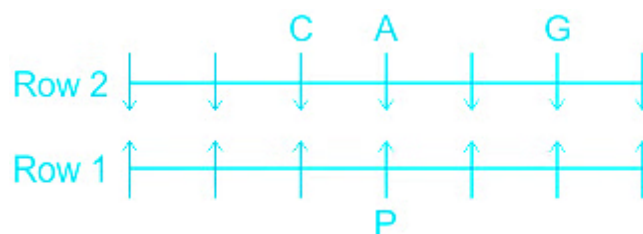
3- Only two people are sitting between G and C.

4- A is sitting immediately to the left of C.

Case-1



Case-2

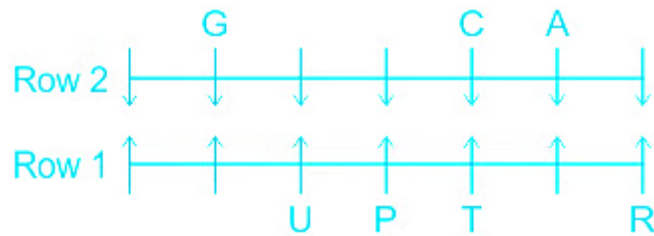


5- The one who is facing A is sitting immediate left of R.

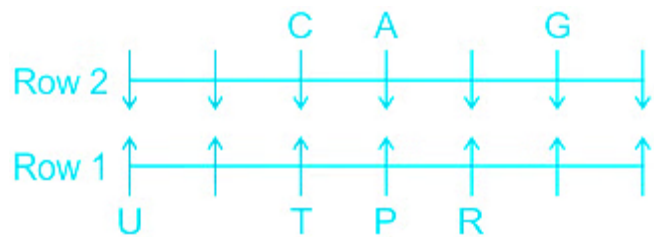
6- One person is sitting between T and U.

7- As many people are sitting between T and R as are sitting between T and U.

Case-1



Case-2

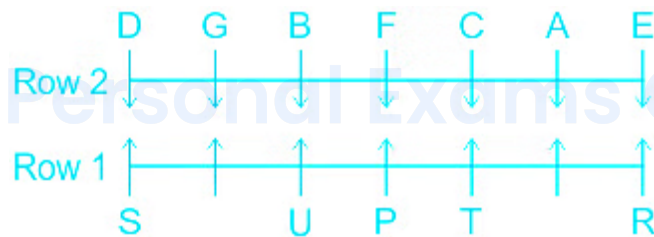


8- S and D are facing each other and sitting on an end.

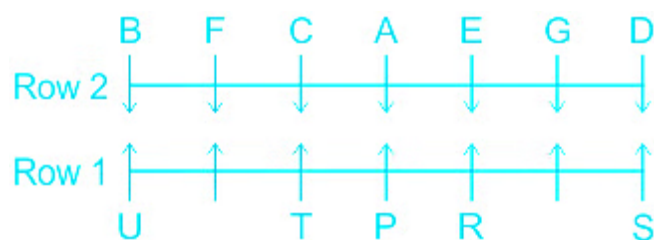
9- Only one person is sitting between C and E, who is not facing U.

10- B is sitting immediate right of F.

Case-1

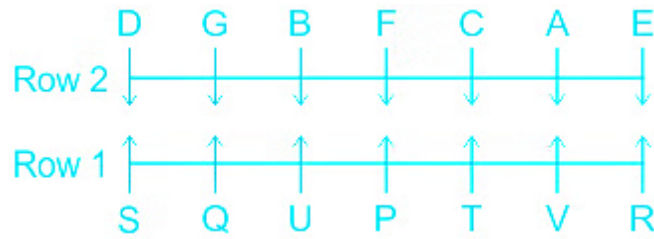


Case-2



11- Both F and G are not facing V. So, case-2 gets eliminated.

So, Final arrangement;



Hence, **A is facing V.**

88. Answer: b

Explanation:

Fourteen people .

A, B, C, D, E, F and G are sitting in row-2 and facing South.

P, Q, R, S, T, U and V Are sitting in row-1 and facing North.

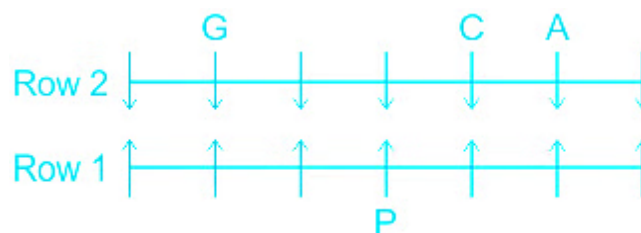
1- G is second from one end.

2- Only one people is sitting between P and the one who is facing G.

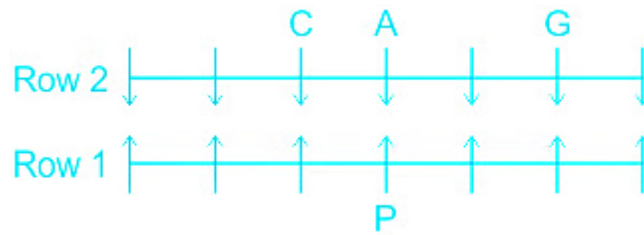
3- Only two people are sitting between G and C.

4- A is sitting immediately to the left of C.

Case-1



Case-2

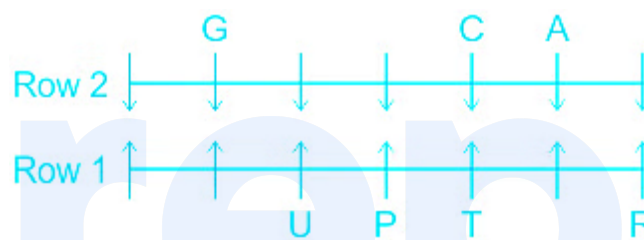


5- The one who is facing A is sitting immediate left of R.

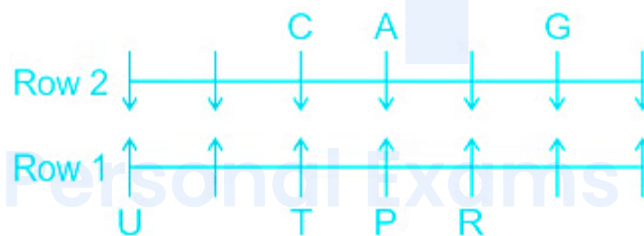
6- One person is sitting between T and U.

7- As many people are sitting between T and R as are sitting between T and U.

Case-1



Case-2

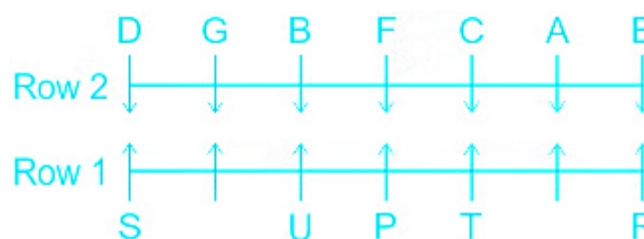


8- S and D are facing each other and sitting on an end.

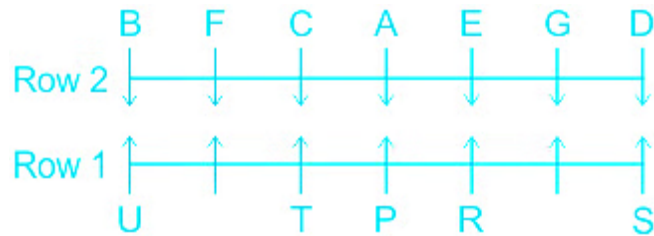
9- Only one person is sitting between C and E, who is not facing U.

10- B is sitting immediate right of F.

Case-1

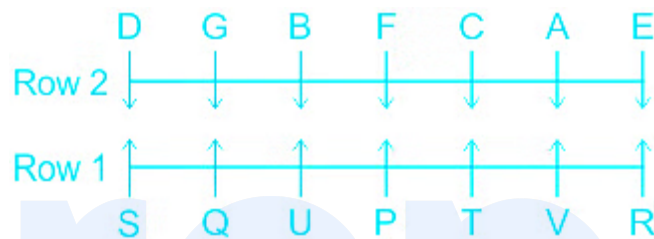


Case-2



11- Both F and G are not facing V. So, case-2 gets eliminated.

So, Final arrangement;



Hence, **Three people** are sitting between C and D.

89. Answer: c

Explanation:

Fourteen people .

A, B, C, D, E, F and G are sitting in row-2 and facing South.

P, Q, R, S, T, U and V Are sitting in row-1 and facing North.

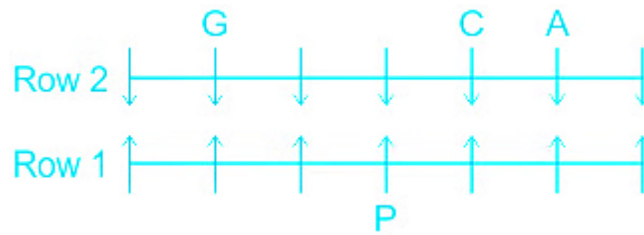
1- G is second from one end.

2- Only one people is sitting between P and the one who is facing G.

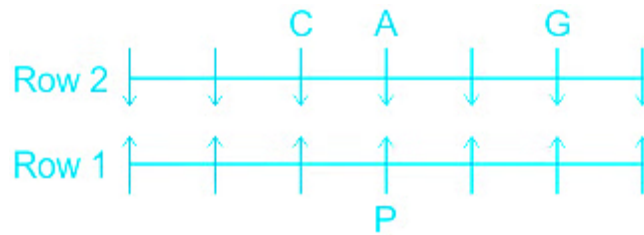
3- Only two people are sitting between G and C.

4- A is sitting immediately to the left of C.

Case-1



Case-2

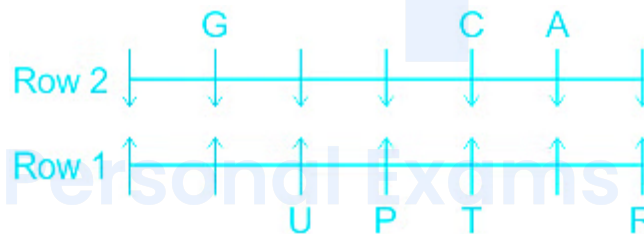


5- The one who is facing A is sitting immediate left of R.

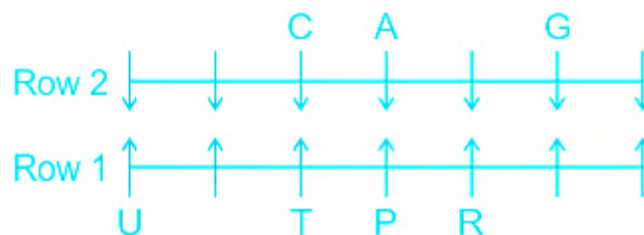
6- One person is sitting between T and U.

7- As many people are sitting between T and R as are sitting between T and U.

Case-1



Case-2

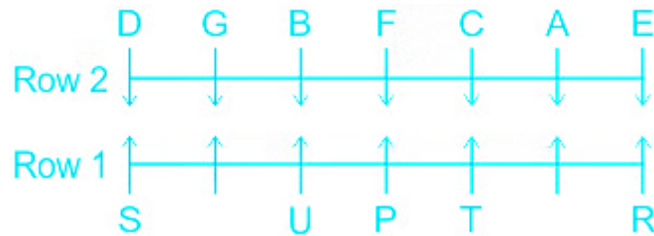


8- S and D are facing each other and sitting on an end.

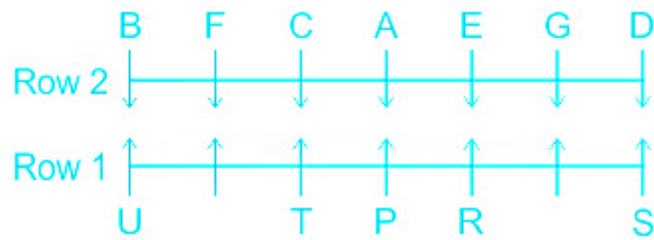
9- Only one person is sitting between C and E, who is not facing U.

10- B is sitting immediate right of F.

Case-1

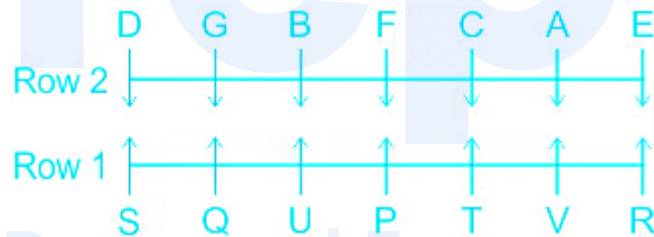


Case-2



11- Both F and G are not facing V. So, case-2 gets eliminated.

So, Final arrangement;



Hence, F is sitting third to the right of E.

90. Answer: c

Explanation:

Fourteen people .

A, B, C, D, E, F and G are sitting in row-2 and facing South.

P, Q, R, S, T, U and V Are sitting in row-1 and facing North.

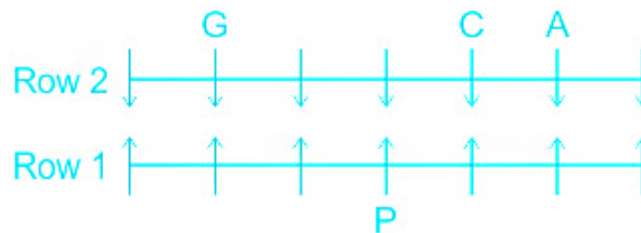
1- G is second from one end.

2- Only one people is sitting between P and the one who is facing G.

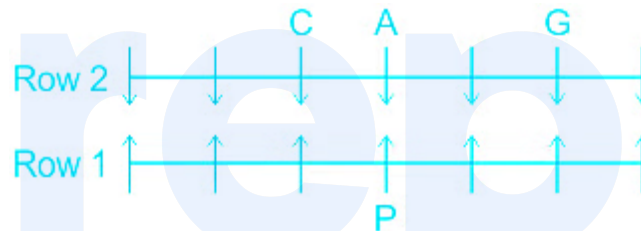
3- Only two people are sitting between G and C.

4- A is sitting immediately to the left of C.

Case-1



Case-2

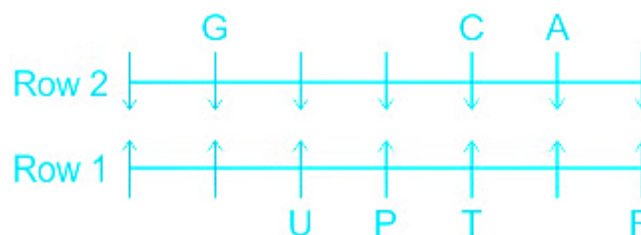


5- The one who is facing A is sitting immediate left of R.

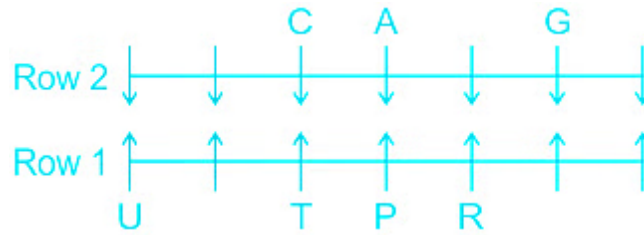
6- One person is sitting between T and U.

7- As many people are sitting between T and R as are sitting between T and U.

Case-1



Case-2

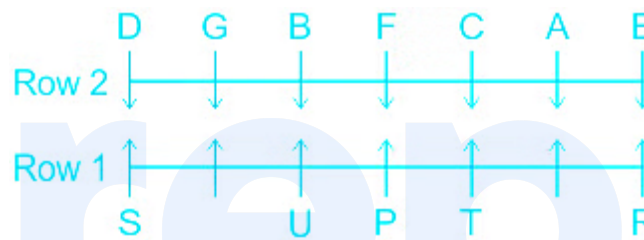


8- S and D are facing each other and sitting on an end.

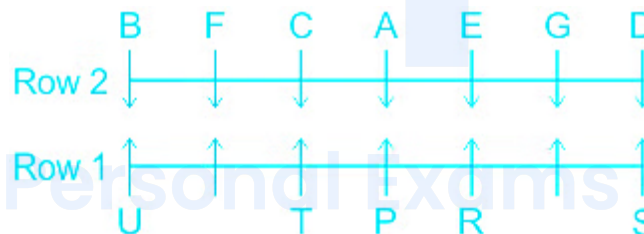
9- Only one person is sitting between C and E, who is not facing U.

10- B is sitting immediate right of F.

Case-1

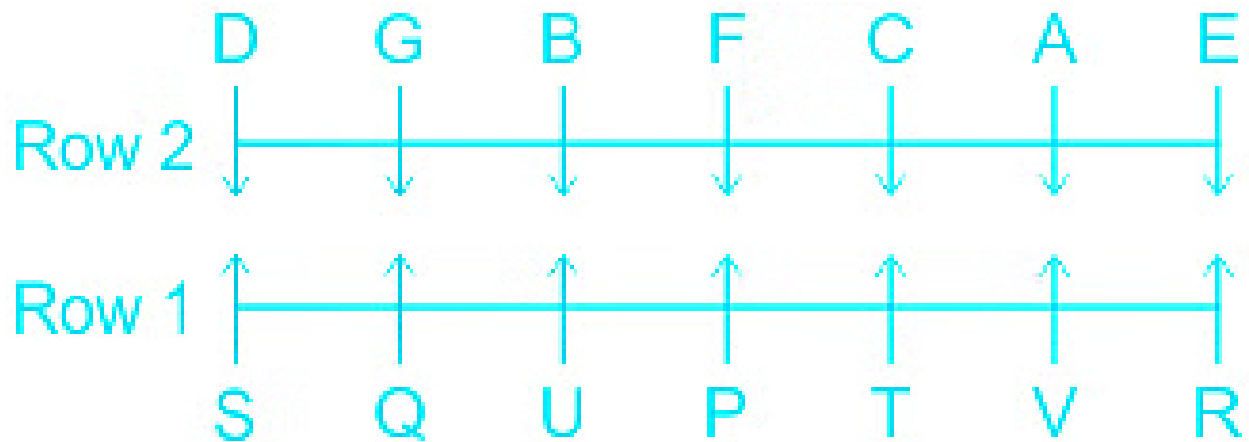


Case-2



11- Both F and G are not facing V. So, case-2 gets eliminated.

So, Final arrangement;



Hence, D,S,E,R are sitting on an end but G is not so G is the odd one.

91. Answer: c

Explanation:

Fourteen people .

A, B, C, D, E, F and G are sitting in row-2 and facing South.

P, Q, R, S, T, U and V Are sitting in row-1 and facing North.

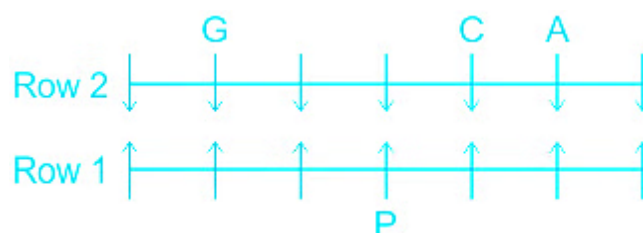
1- G is second from one end.

2- Only one people is sitting between P and the one who is facing G.

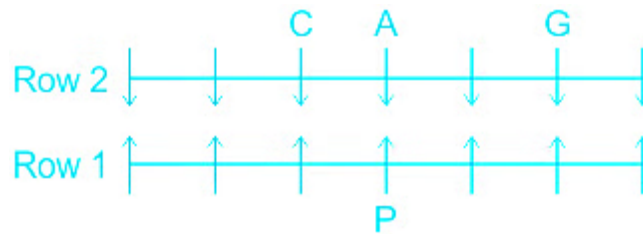
3- Only two people are sitting between G and C.

4- A is sitting immediately to the left of C.

Case-1



Case-2

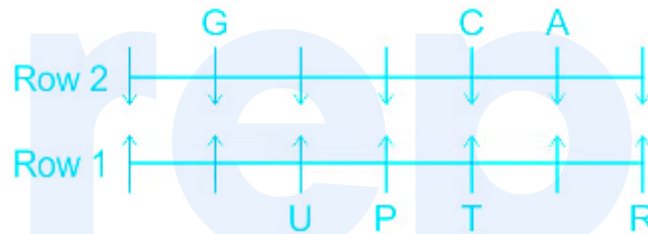


5- The one who is facing A is sitting immediate left of R.

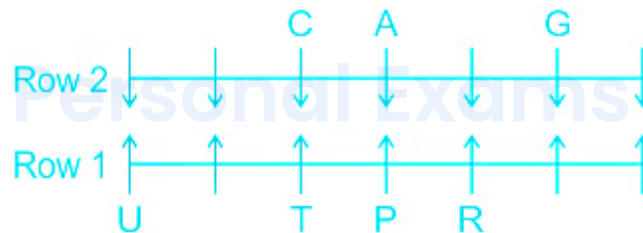
6- One person is sitting between T and U.

7- As many people are sitting between T and R as are sitting between T and U.

Case-1



Case-2

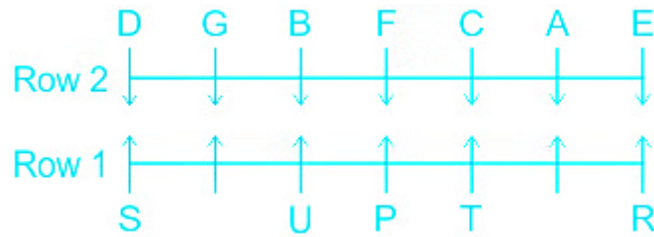


8- S and D are facing each other and sitting on an end.

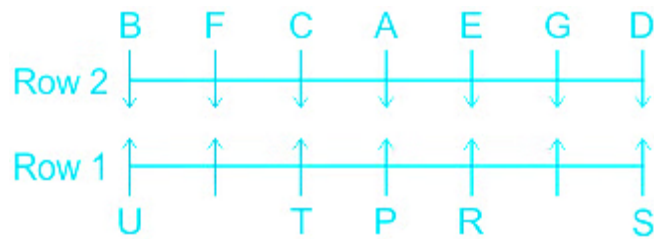
9- Only one person is sitting between C and E, who is not facing U.

10- B is sitting immediate right of F.

Case-1

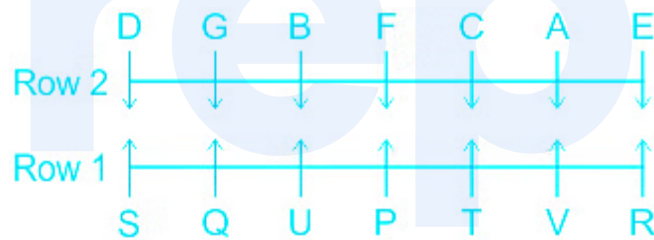


Case-2



II- Both F and G are not facing V. So, case-2 gets eliminated.

So, Final arrangement;



Hence, P is sitting second to the left of the one who is facing A.

92. Answer: c

Explanation:

The logic follows here is:-



Thus, the correct answer is "NT".

93. Answer: c

Explanation:

Given Statements : $P > Q > R$; $R > S \geq T$

On Combining : $P > Q > R > S \geq T$

Conclusions:

I. $R > T \rightarrow \text{True}$ (As $R > S \geq T$; Thus clear relation between R and T can be determined)

II. $P > S \rightarrow \text{True}$ (As $P > Q > R > S$; Thus clear relation between P and S can be determined)

Therefore **Both conclusion I and II are True** .

94. Answer: e

Explanation:

Given statements: $M > E \leq W$; $Q < E$; $Q \geq P > S$

On combining: $M > E > Q \geq P > S$; $W \geq E > Q \geq P > S$

Conclusions:

I. $M > S \rightarrow \text{True}$ (as $M > E > Q \geq P > S \rightarrow M > S$)

II. $E \geq P \rightarrow \text{False}$ (as $E > Q \geq P \rightarrow E > P$)

Hence, only I is True.

95. Answer: c

Explanation:

Given: **GALACTOMETER**

Used letters:- GALACTOMETER -4th, 8th, 10th and 11th which are A, M, T, E.

Meaningful words are:- MATE, TEAM, MEAT etc...

MATE - A friend or somebody you live, work or do an activity with.

TEAM - a group of people who play a sport or game together against another group.

MEAT- the parts of animals or birds that people eat.

Hence, more than one such word can be made so the answer is **Y**.

96. **Answer: c**

Explanation:

Seven people viz; K, L, M, N, O, P, and Q.

different colours viz; Blue, White, Green, Red, Black, Pink, and Yellow.

1- Only two people lives below the one who likes Blue.

2- Only one person lives between the one who likes Green and Blue.

3- Q lives immediately above the one who likes Blue.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7				
6				
5		Green		
4	Q		Q	
3		Blue		Blue
2				
1				Green

4- O lives two floors above Q.

5- M likes Black and lives on Topmst floor.

6- The one who likes Pink lives immediately above the one who likes Green.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7	M	Black	M	Black
6	O	Pink	O	
5		Green		
4	Q		Q	
3		Blue		Blue
2				Pink
1				Green

7- Only one person lives between Q and N.

8- Only one person lives between O and the one who likes Red.

9- The one who likes White lives immediately above the one who likes Yellow.

10- Only one person lives between K and L, who lives below K but not on the bottommost floor.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7	M	Black	M	Black
6	O	Pink	O	White
5	K	Green	K	Yellow
4	Q	Red	Q	Red
3	L	Blue	L	Blue
2	N	White	N	Pink
1		Yellow		Green

11- P doesn't like Green. So, case-2 gets eliminated.

So, Final arrangement;

Floor	Person	Colour
7	M	Black
6	O	Pink
5	K	Green
4	Q	Red
3	L	Blue
2	N	White
1	P	Yellow

Hence, **P likes Yellow.**

97. Answer: b

Explanation:

Seven people viz; K, L, M, N, O, P, and Q.

different colours viz; Blue, White, Green, Red, Black, Pink, and Yellow.

1- Only two people lives below the one who likes Blue.

2- Only one person lives between the one who likes Green and Blue.

3- Q lives immediately above the one who likes Blue.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7				
6				
5		Green		
4	Q		Q	
3		Blue		Blue
2				
1				Green

4- O lives two floors above Q.

5- M likes Black and lives on Topmst floor.

6- The one who likes Pink lives immediately above the one who likes Green.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7	M	Black	M	Black
6	O	Pink	O	
5		Green		
4	Q		Q	
3		Blue		Blue
2				Pink
1				Green

7- Only one person lives between Q and N.

8- Only one person I lives between O and the one who likes Red.

9- The one who likes White lives immediately above the one who likes Yellow.

10- Only one person lives between K and L, who lives below K but not on the bottommost floor.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7	M	Black	M	Black
6	O	Pink	O	White
5	K	Green	K	Yellow
4	Q	Red	Q	Red
3	L	Blue	L	Blue
2	N	White	N	Pink
1		Yellow		Green

11- P doesn't like Green. So, case-2 gets eliminated.

So, Final arrangement;

Floor	Person	Colour
7	M	Black
6	O	Pink
5	K	Green
4	Q	Red
3	L	Blue
2	N	White
1	P	Yellow

Hence, Two people lives between N and K.

98. Answer: d

Explanation:

Seven people viz; K, L, M, N, O, P, and Q.

different colours viz; Blue, White, Green, Red, Black, Pink, and Yellow.

1- Only two people lives below the one who likes Blue.

2- Only one person lives between the one who likes Green and Blue.

3- Q lives immediately above the one who likes Blue.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7				
6				
5		Green		
4	Q		Q	
3		Blue		Blue
2				
1				Green

4- O lives two floors above Q.

5- M likes Black and lives on Topmst floor.

6- The one who likes Pink lives immediately above the one who likes Green.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7	M	Black	M	Black
6	O	Pink	O	
5		Green		
4	Q		Q	
3		Blue		Blue
2				Pink
1				Green

7- Only one person lives between Q and N.

8- Only one person lives between O and the one who likes Red.

9- The one who likes White lives immediately above the one who likes Yellow.

10- Only one person lives between K and L, who lives below K but not on the bottommost floor.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7	M	Black	M	Black
6	O	Pink	O	White
5	K	Green	K	Yellow
4	Q	Red	Q	Red
3	L	Blue	L	Blue
2	N	White	N	Pink
1		Yellow		Green

11- P doesn't like Green. So, case-2 gets eliminated.

So, Final arrangement;

Floor	Person	Colour
7	M	Black
6	O	Pink
5	K	Green
4	Q	Red
3	L	Blue
2	N	White
1	P	Yellow

Hence, M, P, L, K lives on an odd numbered floor but Q lives on an even numbered floor. So Q is odd one.

99. Answer: c

Explanation:

Seven people viz; K, L, M, N, O, P, and Q.

different colours viz; Blue, White, Green, Red, Black, Pink, and Yellow.

1- Only two people lives below the one who likes Blue.

2- Only one person lives between the one who likes Green and Blue.

3- Q lives immediately above the one who likes Blue.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7				
6				
5		Green		
4	Q		Q	
3		Blue		Blue
2				
1				Green

4- O lives two floors above Q.

5- M likes Black and lives on Topmst floor.

6- The one who likes Pink lives immediately above the one who likes Green.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7	M	Black	M	Black
6	O	Pink	O	
5		Green		
4	Q		Q	
3		Blue		Blue
2				Pink
1				Green

7- Only one person lives between Q and N.

8- Only one person lives between O and the one who likes Red.

9- The one who likes White lives immediately above the one who likes Yellow.

10- Only one person lives between K and L, who lives below K but not on the bottommost floor.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7	M	Black	M	Black
6	O	Pink	O	White
5	K	Green	K	Yellow
4	Q	Red	Q	Red
3	L	Blue	L	Blue
2	N	White	N	Pink
1		Yellow		Green

11- P doesn't like Green. So, case-2 gets eliminated.

So, Final arrangement;

Floor	Person	Colour
7	M	Black
6	O	Pink
5	K	Green
4	Q	Red
3	L	Blue
2	N	White
1	P	Yellow

Hence, N(White) lives immediately above the one who lives on bottommost floor .

100. Answer: b

Explanation:

Seven people viz; K, L, M, N, O, P, and Q.

different colours viz; Blue, White, Green, Red, Black, Pink, and Yellow.

1- Only two people lives below the one who likes Blue.

2- Only one person lives between the one who likes Green and Blue.

3- Q lives immediately above the one who likes Blue.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7				
6				
5		Green		
4	Q		Q	
3		Blue		Blue
2				
1				Green

4- O lives two floors above Q.

5- M likes Black and lives on Topmst floor.

6- The one who likes Pink lives immediately above the one who likes Green.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7	M	Black	M	Black
6	O	Pink	O	
5		Green		
4	Q		Q	
3		Blue		Blue
2				Pink
1				Green

7- Only one person lives between Q and N.

8- Only one person lives between O and the one who likes Red.

9- The one who likes White lives immediately above the one who likes Yellow.

10- Only one person lives between K and L, who lives below K but not on the bottommost floor.

	Case-1		Case-2	
Floor	Person	Colour	Person	Colour
7	M	Black	M	Black
6	O	Pink	O	White
5	K	Green	K	Yellow
4	Q	Red	Q	Red
3	L	Blue	L	Blue
2	N	White	N	Pink
1		Yellow		Green

11- P doesn't like Green. So, case-2 gets eliminated.

So, Final arrangement;

Floor	Person	Colour
7	M	Black
6	O	Pink
5	K	Green
4	Q	Red
3	L	Blue
2	N	White
1	P	Yellow

Hence, **L** lives between the one who likes Red and N.

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