

# Prepp

## 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



BPS



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

# SSC GD Constable 2022 (English) Prev. Year Paper (12-Jan-2023) (Shift 4)

Total Time: 1 Hour

Total Marks: 160

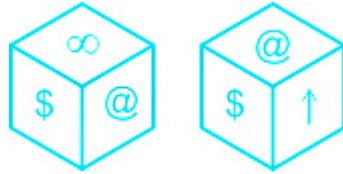
## Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence and Reasoning	20	40	0.5	2
2	General Knowledge and General Awareness	20	40	0.5	2
3	Elementary Mathematics	20	40	0.5	2
4	English	20	40	0.5	2

- 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.

## General Intelligence and Reasoning

1. Two different positions of the same dice are shown having symbols- @, Δ, ☒, (\$, ∞, ↑. Find the symbol on the face opposite the face showing '∞'. (+2, -0.5)



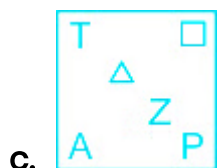
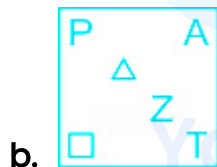
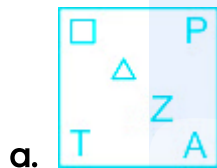
- a. @
- b. ↑
- c. Δ
- d. ☒
- 
2. Six friends Amit, Bunty, Vaibhav, Harshit, Pulkit and Gagan are sitting around a circular table facing towards the centre. Bunty is the immediate neighbour of Harshit and Vaibhav. Amit is the immediate neighbour of Pulkit and Vaibhav. Who is the immediate neighbour of Amit and Gagan? (+2, -0.5)
- a. Pulkit
- b. Bunty
- c. Vaibhav
- d. Harshit

3. Which two signs should be interchanged to make the below equation mathematically correct? (+2, -0.5)

$$24 - 8 + 12 \div 48 \times 36 = 23$$

- a. + and ÷
- b. and +
- c. × and ÷
- d. and ×

4. Which figure should replace the question mark (?) if the series were to be continued? (+2, -0.5)



5. In a certain language, EARLY is coded as HDUOB, GAMES is coded as JDPHV. (+2, -0.5)  
How will INDEX be coded in the same language?

- a. XEDNI
- b. LQGHA
- c. DNIEX
- d. KPFGZ

6. In this question, three statements are given, followed by two conclusions (+2, -0.5)  
numbered I and II. Assuming the statements to be true, even if they seem  
to be at variance with commonly known facts, decide which of the  
conclusions logically follows/follow from the statements.

**Statements:**

All doors are walls.

All walls are rooms.

All rooms are flats.

**Conclusions:**

I. Some flats are doors.

II. All walls are flats.

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

7. Select the set in which the numbers are related in the same way as are the numbers of the following set. (+2, -0.5)

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(360, 65, 25)

(216, 44, 20)

- a. (179, 66, 30)
- b. (80, 19, 9)
- c. (190, 35, 17)
- d. (198, 35, 13)

8. Select the option figure which is embedded in the given figure. (Rotation is NOT allowed) (+2, -0.5)



- a.
- b.
- c.
- d.

---

9. In a certain code language, 'live life happily' is coded as '447', 'everyone is here' is coded as '824' and 'be grateful' is coded as '28'. How will 'count your blessings' be coded in that language? (+2, -0.5)

- a. 658
- b. 856
- c. 549
- d. 459

---

10. Which of the following numbers will replace the question mark (?) in the given series? (+2, -0.5)

4, 7, 12, 19, 28, 39, 52, 67, ?

- a. 83
- b. 84
- c. 82
- d. 81

---

11. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series. (+2, -0.5)

WBL, DIS, KPZ, RWG, ?

- a. YEM
- b. ZDN
- c. XDN

d. YDN

---

12. Which two signs should be interchanged to make the below equation mathematically correct? (+2, -0.5)

$$25 + 200 \div 8 \times 16 - 48 = 77$$

- a.  $\div$  and  $\times$
  - b.  $\div$  and  $-$
  - c. and  $+$
  - d.  $\times$  and  $-$
- 

13. Which of the following numbers will replace the question mark (?) in the given series? (+2, -0.5)

4, 24, 30, 180, 186, ?

- a. 192
  - b. 1118
  - c. 1110
  - d. 1116
- 

14. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word) (+2, -0.5)

Colour : Red :: Vehicle : ?



- a. Truck
- b. Road
- c. Petrol
- d. Tyre

---

15. 'A  $\wedge$  P' means 'A is the husband of P'. (+2, -0.5)

'A % P' means 'A is the father of P'.

'A = P' means 'A is the sister of P'.

'A & P' means 'A is the daughter of P'.

If  $F \& G = H \wedge J$ , then which of the following is correct?

- a. H and F are siblings.
- b. F is the daughter of J.
- c. G is the mother of J.
- d. J is the wife of G's brother.

---

16. V, W, X, Y, Z, A, B and C were sitting around a square table facing the centre. (+2, -0.5)

Some of these were sitting at corners and some were sitting at exact centre of the sides. C was to the immediate right of W. B was third to the left of Z. A was the immediate neighbour of X and C. Z, not at any corner, was the immediate neighbour of W and Y. Who among the following was sitting third to the right of A?

- a. B
- b. Y

c. V

d. Z

17. Select the option that is embedded in the given figure (rotation is NOT allowed). (+2, -0.5)



18. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster. (+2, -0.5)

FALLEN : TJPOCG :: DANGER : XJKQCE :: CABLES : ?

a. YJPEBD

b. YJPECD

c. DCEPJY

d. ZJPECD

19. Which of the following letter-clusters will replace the question mark (?) and complete the following letter-cluster series? (+2, -0.5)

UH, BD, IA, PY, ?

- a. VX
- b. WW
- c. WY
- d. WX

20. Which option represents the correct order of the given words as they would appear in the English dictionary? (+2, -0.5)

1 Pillow

2 Pile

3 Pint

4 Picked

5 Pickle

- a. 5, 4, 2, 1, 3
- b. 4, 5, 2, 1, 3
- c. 2, 3, 4, 1, 5
- d. 2, 1, 3, 5, 4

## General Knowledge and General Awareness

21. Which among the following political leaders succeeded Raghav Chadha to become Member of Legislative Assembly from Rajinder Nagar, Delhi in June 2022? (+2, -0.5)
- a. Sanjeev Jha
  - b. Manoj Tiwari
  - c. Durgesh Pathak
  - d. Adarsh Shastri
- 
22. Which Part of the Constitution of India contains within it the powers and functions of the Union Public Service Commission? (+2, -0.5)
- a. Part XVII
  - b. Part XV
  - c. Part XVI
  - d. Part XIV
- 
23. RUSA, is the central government's contribution to further the promise held by the rich expanse of India's state universities. RUSA stands for: (+2, -0.5)
- a. Rajiv Gandhi Uchchatar Shiksha Abhiyan
  - b. Rashtriya Uchchatar Seekh Abhiyan
  - c. Rashtriya Unchi Shiksha Abhiyan
  - d. Rashtriya Uchchatar Shiksha Abhiyan

24. The famous Losoong festival is celebrated in which of the following states? (+2, -0.5)
- a. Assam
  - b. Sikkim
  - c. Manipur
  - d. Rajasthan
- 

25. How many sports were there in the Asian Games 2018? (+2, -0.5)
- a. 41
  - b. 47
  - c. 55
  - d. 36
- 

26. During the Chola period, *muvendavelan* and *araiyar* were titles of ----- (+2, -0.5)
- a. sons of king
  - b. commander of army
  - c. rich landowners
  - d. ministers of king
-

27. Guru Pankaj Charan Das is a famous proponent of which Indian classical Dance? (+2, -0.5)
- a. Manipuri
  - b. Odissi
  - c. Mohiniyattam
  - d. Kathak
- 

28. In India, it is the only industry in the country, which is self-reliant and complete in the value chain i.e., from raw material to the highest value added products. Which industry is being spoken about here? (+2, -0.5)
- a. Small Scale Industries
  - b. Iron and Steel Industry
  - c. Private Sector Industries
  - d. Textile Industry
- 

29. Who among the following was the founder of the 'Khudai Khidmatgars' non-violent movement? (+2, -0.5)
- a. Syed Ahmad Khan
  - b. Abul Kalam Azad
  - c. Khan Abdul Ghaffar Khan
  - d. Mohammad Ali Jinnah
-

30. Cyclostomes are jawless \_\_\_\_\_ . (+2, -0.5)

- a. vertebrates
- b. protochordates
- c. mollusca
- d. arthropoda

31. The first complete census of an Indian city was conducted in 1830 by \_\_\_\_\_ . (+2, -0.5)

- a. James Rennell
- b. Henry Walter
- c. John Graunt
- d. Eratosthenes

32. National development council (NDC) was set up in \_\_\_\_\_ in India. (+2, -0.5)

- a. 1949
- b. 1960
- c. 1952
- d. 1947

33. In November 2021, which of the following dancer won a Padma Shri for the contribution in Arts? (+2, -0.5)

- a. Sumitra Mahajan
- b. Manjamma Jogati
- c. Chutni Dev
- d. Shanti Devi

---

34. Whose tenure has been extended by one year as the Chief of Research and Analysis Wing (R&AW) in June 2022? (+2, -0.5)

- a. Samant Goel
- b. Rajinder Khanna
- c. Arvinda Kumar
- d. Rameshwar Nath Kao

---

35. Which of the following is correct regarding Personal Disposable Income? (+2, -0.5)

- a.  $\text{Personal Disposable Income} \equiv \text{Personal Income} + \text{Personal tax payments} - \text{Non-tax payments}$
- b.  $\text{Personal Disposable Income} \equiv \text{Personal Income} - \text{Personal tax payments} - \text{Non-tax payments}$
- c.  $\text{Personal Disposable Income} \equiv \text{Personal Income} - \text{Personal tax payments} + \text{Non-tax payments}$
- d.  $\text{Personal Disposable Income} \equiv \text{Personal Income} + \text{Personal tax payments} + \text{Non-tax payments}$

---

36. Which among the following elements has the least atomic radius? (+2, -0.5)



- a. Li
  - b. Be
  - c. O
  - d. B
- 

37. In which of the following International Olympic Committee's session, Tomas Bach's Olympic Agenda 2020+5 was discussed? (+2, -0.5)

- a. 137<sup>th</sup> Session held virtually
  - b. 138<sup>th</sup> Session held in Tokyo
  - c. 135<sup>th</sup> Session held in Lausanne
  - d. 136<sup>th</sup> Session held virtually
- 

38. Which water body surrounds India in the west? (+2, -0.5)

- a. Arabian Sea
  - b. Pacific Ocean
  - c. Bay of Bengal
  - d. Indian Ocean
- 

39. The objective of the first five year plan was to \_\_\_\_\_ (+2, -0.5)

- a. promote more education
- b. initiate a process of development.

- c. develop agriculture
- d. increase the GDP of India.

---

40. In the Indian constitution, Right to equality has \_\_\_\_\_ articles in it. (+2, -0.5)

- a. 5
- b. 4
- c. 3
- d. 2

prepp

Your Personal Exams Guide

## Elementary Mathematics

41. A train runs at a speed of 90 km/h in the first 10 minutes and 60 km/h in next 25 minutes and 15 km/h in last 4 minutes. What is the average speed of the train? (+2, -0.5)
- a.  $51\frac{1}{11}$  km/h
- b.  $61\frac{11}{13}$  km/h
- c.  $63\frac{1}{13}$  km/h
- d.  $65\frac{5}{13}$  km/h
- 
42. If 125 identical small spheres are made from a solid sphere of diameter 15 cm, then what is the surface area of each of the small sphere? (+2, -0.5)
- a.  $4\pi\text{ cm}^2$
- b.  $36\pi\text{ cm}^2$
- c.  $12\pi\text{ cm}^2$
- d.  $9\pi\text{ cm}^2$
- 
43. A salesman buys 15 articles for Rs. 10 and sells 10 articles for Rs. 15. Determine the percentage profit earned by the salesman. (+2, -0.5)
- a. 125%
- b. 100%
- c. 225%

d. 150%

---

44. Sohan and Rohan together can do a piece of work in 18 days. If Sohan alone can do the same work in 27 days, then how many days Rohan alone takes to complete the same work? (+2, -0.5)

a. 72

b. 66

c. 54

d. 48

---

45. If  $A : B = 5 : 8$  and  $B : C = 4 : 7$ , then find the value of  $A : B : C$ . (+2, -0.5)

a. 7 : 8 : 12

b. 4 : 9 : 15

c. 5 : 8 : 14

d. 5 : 8 : 10

---

46. The average of the first four prime numbers that are odd is: (+2, -0.5)

a. 4.6

b. 4

c. 6

d. 6.5

---

47. The value of the following expression is: (+2, -0.5)

$$197 - \left[ \frac{1}{9} \{42 + (56 - 8 + 9)\} + 108 \right]$$

- a. 78
- b. 23
- c. 74
- d. 80

---

48. A, B, and C can do a piece of work in 8, 4, and 16 days respectively. How many days will A take to complete the entire work if A is assisted by B and C both on every second day? (+2, -0.5)

- a.  $26/7$  days
- b.  $54/11$  days
- c.  $7/8$  days
- d.  $3/4$  days

---

49. Which of the following numbers is NOT divisible by 16? (+2, -0.5)

- a. 16826
- b. 17776
- c. 5168
- d. 18016

50. In an election between two candidates, One candidate got 48% of the total valid votes. 18% of the votes were invalid. If the total number of votes was 17500, then what was the number of valid votes the other candidate got? (+2, -0.5)
- a. 7512
  - b. 14350
  - c. 7462
  - d. 8750
- 

51. A loan of Rs. 1,50,000 is availed with compound interest rate of 10% per annum for two years compounded annually. It is to be paid in equal yearly installments, and the installment is to be paid at the end of each year. The value of the equal yearly installment is : (Rounded off to two places of decimal) (+2, -0.5)
- a. Rs. 86,428.57
  - b. Rs. 84,400.44
  - c. Rs. 80,000.24
  - d. Rs. 82,208.67
- 

52. A trader gains 12% after allowing a discount of 20% on the marked price of an article. Find his profit percentage if the article is sold at marked price allowing no discount. (+2, -0.5)
- a. 40%
  - b. 35%

c. 38%

d. 42%

---

53. A triangle has two equal sides, and the third side is 1.5 times any of these sides. If the perimeter of the triangle is 14 units, then the area of the triangle is \_\_\_\_\_ square units. (+2, -0.5)

a.  $3\sqrt{3}$

b.  $3\sqrt{7}$

c.  $4\sqrt{7}$

d.  $\frac{3}{2}\sqrt{7}$

---

54. In an election between three candidates A, B and C, 80% of the registered voters voted and all the votes were valid. Candidate B got 50% less votes than A, and the difference between the number of votes secured by B and C was 10000. If B got 10% more votes than C, then the number of voters registered on the voting list is: (+2, -0.5)

a. 175000

b. 430000

c. 220000

d. 537500

---

55. A man purchased two items at the same price and sold one at a profit of 10% and the other at a loss of 5%. If the difference between the two selling prices is Rs. 60, then what is the sum of cost price of the two items? (+2, -0.5)

- a. Rs. 900
  - b. Rs. 700
  - c. Rs. 600
  - d. Rs. 800
- 

56. Two trains having lengths 550 m and 650 m are running parallel to each other in opposite directions at speeds of 68 km/h and 40 km/h, respectively. In how much time (in seconds) they will cross each other? (+2, -0.5)

- a. 40
  - b. 30
  - c. 45
  - d. 35
- 

57. Without stoppages a train travels a certain distance with an average speed of 75 km/h and with stoppages it covers the same distance with an average speed of 65 km/h. How many minutes per hour does the train stop? (+2, -0.5)

- a. 10 min
  - b. 7 min
  - c. 9 min
  - d. 8 min
-



58. When the same number is subtracted from each of 7, 9, 11 and 15, the resulting numbers are in proportion. The number subtracted is: (+2, -0.5)
- a. 4
  - b. 5
  - c. 2
  - d. 3

59. Lara deposited Rs. 8,000 in a bank, which pays her compound interest at the rate of 10% per annum compounded half-yearly. What is the amount she will receive after 18 months? (+2, -0.5)
- a. Rs. 9,162
  - b. Rs. 9,616
  - c. Rs. 9,621
  - d. Rs. 9,261

60. X was offering two successive discounts of 12 percent and 8 percent on an item while Y was offering flat 20 percent discount on the same item. What is the difference between overall discount given by X and Y? (+2, -0.5)
- a. 0.96 percent
  - b. 0.90 percent
  - c. 0.92 percent
  - d. 0.94 percent

## English

61. Select the most appropriate option that can substitute the underlined segment in the given sentence. (+2, -0.5)

How she managed of escaping from the situation was inexplicable.

- a. managed to escape of
- b. managed to escape on
- c. managed to escape from
- d. managing of escape

- 
62. Select the most appropriate meaning of the given idiom. (+2, -0.5)

Wild goose chase

- a. To do something pointless
- b. To hunt wild animals
- c. Going on world tour
- d. Competing fiercely

- 
63. Select the most appropriate option to fill in the blank. (+2, -0.5)

As he opened the window the sun \_\_\_\_\_ directly fell on his face.

- a. rays
- b. raze
- c. race

d. raise

---

64. Select the most appropriate synonym of the given word. (+2, -0.5)

Auspicious

- a. Antique
  - b. Fortunate
  - c. Illogical
  - d. Despairing
- 

65. Select the most appropriate option that can substitute the underlined segment in the given sentence. (+2, -0.5)

Mr. Advani was happy to push the boat out for his daughter's wedding.

- a. spend a lot of money
  - b. spend less money
  - c. avoid risk
  - d. take it easy
- 

66. Select the most appropriate option to fill in the blank. (+2, -0.5)

They enjoyed \_\_\_\_\_ the sun rising from the hills.

- a. in seeing
- b. to visualise

- c. watching
  - d. blinking at
- 

67. Select the most appropriate synonym of the capitalised word in the given sentence. (+2, -0.5)

Isabel listened with extreme respect to this ADMONITION.

- a. Insult
  - b. Prayer
  - c. Council
  - d. Counsel
- 

68. Select the correct pair of words for the blanks in the given sentence. (+2, -0.5)

I will \_\_\_\_\_ a new purse from the shop on the \_\_\_\_\_ pass road.

- a. by; bye
  - b. bye; bye
  - c. buy; by
  - d. bye; buy
- 

69. Select the most appropriate antonym of the underlined word to fill in the blank. (+2, -0.5)

We believe that this incident has been exaggerated so \_\_\_\_\_ it.

- a. ignore

- b. condemn
  - c. underwrite
  - d. understate
- 

70. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. (+2, -0.5)

I can't say for sure/what make him/think of such an/outrageously absurd idea.

- a. I can't say for sure
  - b. what make him
  - c. think of such an
  - d. outrageously absurd idea
- 

71. Select the most appropriate ANTONYM of the given word. (+2, -0.5)

Curtail

- a. Seize
  - b. Amplify
  - c. Restrict
  - d. Deviate
- 

72. Select the most appropriate option that can substitute the underlined segment in the given sentence. (+2, -0.5)

Over 80% of India's transportation fuel are exchanged.

- a. is endangered
- b. are vanished
- c. is imported
- d. have vanished

---

73. Identify the correctly spelt sentence. (+2, -0.5)

- a. I saw the catalogue of D Décor in Capital Mall yesterday.
- b. I saw the cattalogue of D Décor in Capital Mall yesterday.
- c. I saw the catologue of D Décor in Capital Mall yesterday.
- d. I saw the catalogoue of D Décor in Capital Mall yesterday.

---

74. The sentence given below has one misspelt word. Spot the INCORRECTLY spelt word and select its correct spelling. (+2, -0.5)

The aproximate value of my property is Rs. 2 lakh.

- a. Approximate
- b. Aproxemate
- c. Apprroximate
- d. Appraximate

---

75. Select the most appropriate ANTONYM of the given word. (+2, -0.5)

Outgoing

- a. Extravagant
- b. Eccentric
- c. Introverted
- d. Rational

---

76. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

Miss Caroline was no more (1) \_\_\_\_\_ twenty-one. She had bright auburn hair, pink (2) \_\_\_\_\_, and wore crimson finger-nail polish. She also (3) \_\_\_\_\_ high-heeled pumps and a red-and-white (4) \_\_\_\_\_ dress. She looked and smelled (5) \_\_\_\_\_ a peppermint drop.

Select the most appropriate option to fill in blank number 1.

- a. then
- b. but
- c. than
- d. the

---

77. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

Miss Caroline was no more (1) \_\_\_\_\_ twenty-one. She had bright auburn hair, pink (2) \_\_\_\_\_, and wore crimson finger-nail polish. She also (3) \_\_\_\_\_ high-heeled pumps and a red-and-white (4) \_\_\_\_\_ dress. She looked and smelled (5) \_\_\_\_\_ a peppermint drop.

Select the most appropriate option to fill in blank number 2.

- a. ears
- b. eyes
- c. cheeks
- d. eyebrows

---

78. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

Miss Caroline was no more (1) \_\_\_\_\_ twenty-one. She had bright auburn hair, pink (2) \_\_\_\_\_, and wore crimson finger-nail polish. She also (3) \_\_\_\_\_ high-heeled pumps and a red-and-white (4) \_\_\_\_\_ dress. She looked and smelled (5) \_\_\_\_\_ a peppermint drop.

Select the most appropriate option to fill in blank number 3.

- a. wore
- b. worn
- c. wearing
- d. put



79. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

Miss Caroline was no more (1) \_\_\_\_\_ twenty-one. She had bright auburn hair, pink (2) \_\_\_\_\_, and wore crimson finger-nail polish. She also (3) \_\_\_\_\_ high-heeled pumps and a red-and-white (4) \_\_\_\_\_ dress. She looked and smelled (5) \_\_\_\_\_ a peppermint drop.

Select the most appropriate option to fill in blank number 4.

- a. striped
- b. stripped
- c. stepped
- d. stapled

80. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

Miss Caroline was no more (1) \_\_\_\_\_ twenty-one. She had bright auburn hair, pink (2) \_\_\_\_\_, and wore crimson finger-nail polish. She also (3) \_\_\_\_\_ high-heeled pumps and a red-and-white (4) \_\_\_\_\_ dress. She looked and smelled (5) \_\_\_\_\_ a peppermint drop.

Select the most appropriate option to fill in blank number 5.

- a. liked
- b. as

c. like

d. as if

**prepp**

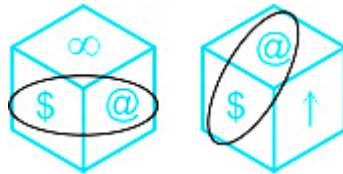
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## Answers

### 1. Answer: b

#### Explanation:

As '\$' and '@' are the common face on both the dice, '∞' face is opposite to '↑'.



Hence, '↑' is the correct answer.

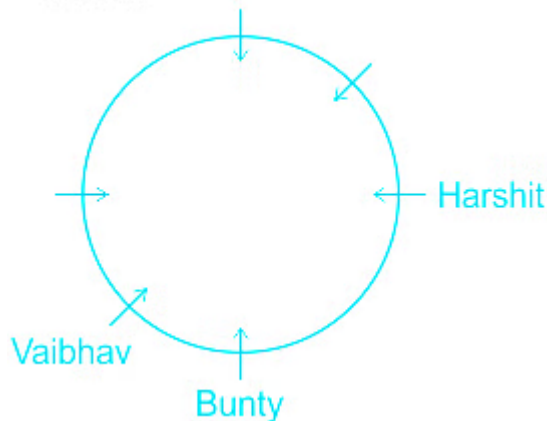
### 2. Answer: a

#### Explanation:

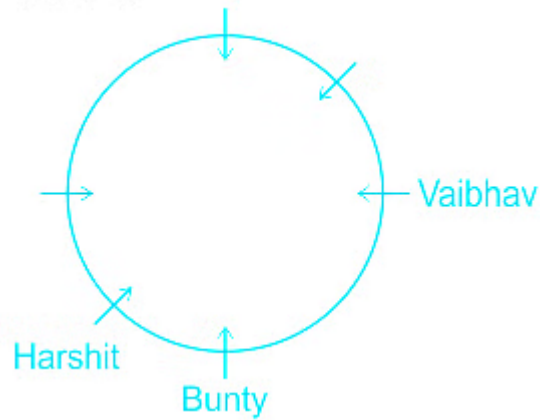
Six friends **Amit, Bunty, Vaibhav, Harshit, Pulkit and Gagan** are sitting around a circular table facing towards the centre.

1. Bunty is the immediate neighbour of Harshit and Vaibhav.

Case I:

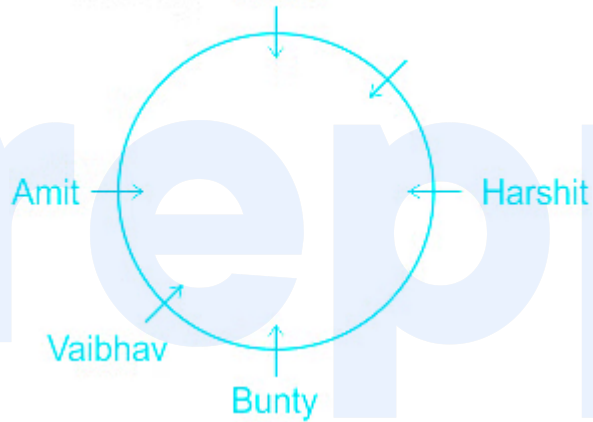


Case II:

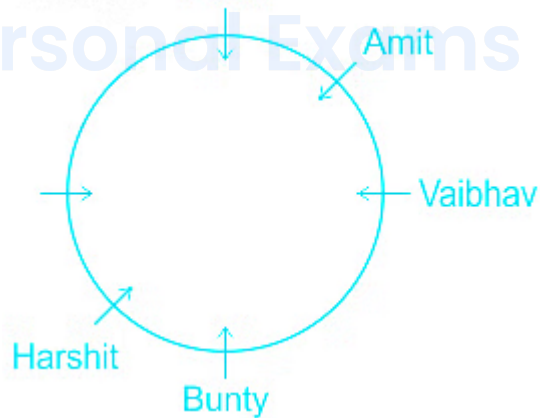


2. Amit is the immediate neighbour of Pulkit and Vaibhav.

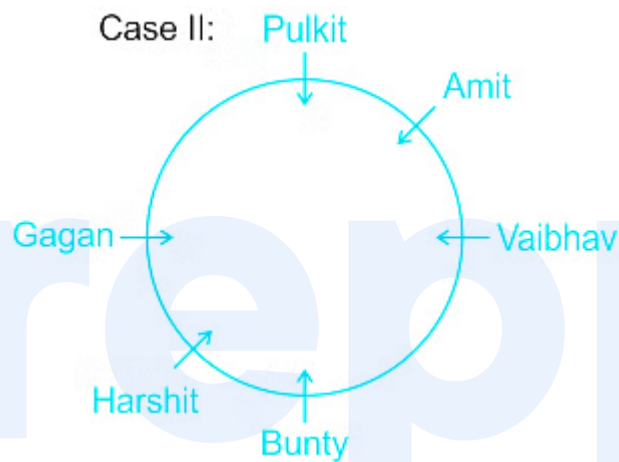
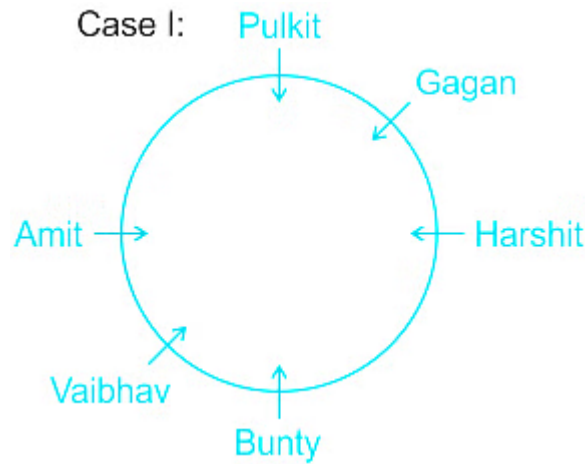
Case I: Pulkit



Case II: Pulkit



Gagan, the only person left will occupy the vacant position



Clearly, Pulkit is the immediate neighbour of Amit and Gagan.

Hence, 'Pulkit' is the correct answer.

### 3. Answer: b

#### Explanation:

Given equation:  $24 - 8 + 12 \div 48 \times 36 = 23$

1. + and  $\div$

$$24 - \underline{8 \div 12} + \underline{48 \times 36} = 23$$

$$\Rightarrow \underline{24} - 0.67 + \underline{1728} = 23$$

$$\Rightarrow \underline{1752 - 0.67} = 23$$

$$\Rightarrow 1751.34 \neq 23$$

2. - and +

$$24 + 8 - \underline{12 \div 48} \times 36 = 23$$

$$\Rightarrow 24 + 8 - \underline{0.25 \times 36} = 23$$

$$\Rightarrow \underline{24 + 8} - 9 = 23$$

$$\Rightarrow \underline{32 - 9} = 23$$

$$\Rightarrow 23 = 23$$

3.  $\times$  and  $\div$

$$24 - 8 + 12 \times \underline{48 \div 36} = 23$$

$$\Rightarrow 24 - 8 + \underline{12 \times 1.34} = 23$$

$$\Rightarrow \underline{24 - 8 + 16.08} = 23$$

$$\Rightarrow \underline{40.08 - 8} = 23$$

$$\Rightarrow 32.08 \neq 23$$

4. - and  $\times$

$$24 \times 8 + 12 \div 48 - 36 = 23$$

$$\Rightarrow \underline{24 \times 8} + \underline{12 \div 48} - 36 = 23$$

$$\Rightarrow \underline{192 + 0.25} - 36 = 23$$

$$\Rightarrow \underline{192.25} - 36 = 23$$

$$\Rightarrow -16.75 \neq 23$$

Hence, '- and +' is the correct answer.

4. Answer: d

Explanation:

The figure which should replace the question mark (?) if the series were to be continued is:

How the elements are changing their position as we proceed in the series is shown below:



Hence, 'option 4' is the correct answer.

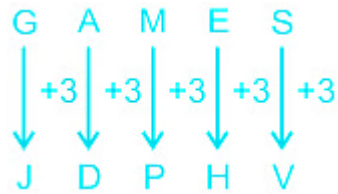
5. Answer: b

Explanation:

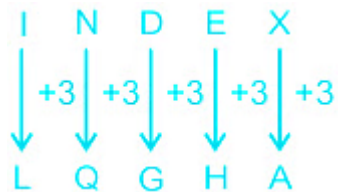
The logic followed here is:

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





Similarly,

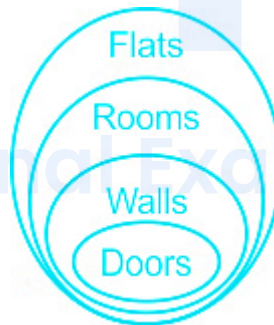


Hence, 'LQGHA' is the correct answer.

6. Answer: c

Explanation:

The least possible Venn diagram is:



Conclusions:

I. Some flats are doors. → Follows (As, All doors are walls, All walls are rooms and All rooms are flats)

II. All walls are flats. → Follows (As, All walls are rooms and All rooms are flats)

Hence, 'Both conclusions I and II follow' is the correct answer.



**7. Answer: d**

**Explanation:**

The logic followed here is:

$$(360, 65, 25) \rightarrow (65 - 25) \times 9 = 40 \times 9 = 360$$

$$(216, 44, 20) \rightarrow (44 - 20) \times 9 = 24 \times 9 = 216$$

Similarly,

$$(198, 35, 13) \rightarrow (35 - 13) \times 9 = 22 \times 9 = 198$$

Hence, '(198, 35, 13)' is the correct answer.









---

**8. Answer: c**

**Explanation:**

The image embedded in given figure is as shown below:

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No.	Option	Question	Answer
1.			Not Embedded
2.			Not Embedded
3.			Embedded
4.			Not Embedded

Hence, 'option 3' is the correct answer.

9. Answer: c

Explanation:

- 'live life happily' is coded as '447'
- 'everyone is here' is coded as '824'
- 'be grateful' is coded as '28'.

In the code language, the words are coded based on the number of characters in each word.

Similarly,

'count your blessings' → Count has 5 characters, your has 4 characters and blessings has 9 characters.

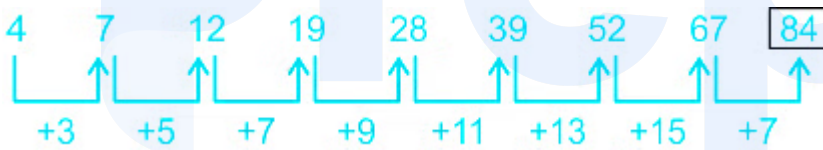
So, the code will be 549.

Hence, '549' is the correct answer.

10. Answer: b

Explanation:

The logic followed here is:



Hence, '84' is the correct answer.

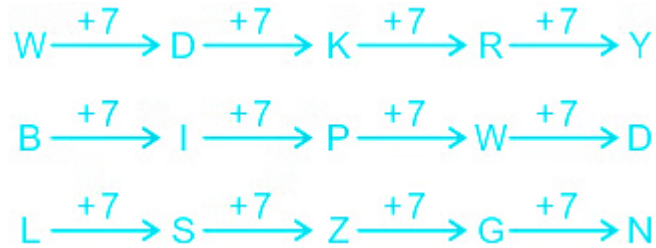
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11. Answer: d

Explanation:

The logic followed here is:

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



Hence, 'YDN' is the correct answer.

## 12. Answer: a

### Explanation:

Given equation:  $25 + 200 \div 8 \times 16 - 48 = 77$

1.  $\div$  and  $\times$

$$25 + 200 \times \underline{8 \div 16} - 48 = 77$$

$$\Rightarrow 25 + \underline{200 \times 0.5} - 48 = 77$$

$$\Rightarrow \underline{25 + 100} - 48 = 77$$

$$\Rightarrow \underline{125 - 48} = 77$$

$$\Rightarrow 77 = 77$$

2.  $\div$  and  $-$

$$25 + 200 - 8 \times \underline{16 \div 48} = 77$$

$$\Rightarrow 25 + 200 - \underline{8 \times 0.34} = 77$$

$$\Rightarrow \underline{25 + 200} - 2.67 = 77$$

$$\Rightarrow \underline{225 - 2.67} = 77$$

$$\Rightarrow 222.34 \neq 77$$

3.  $-$  and  $+$

$$25 - \underline{200 \div 8} \times 16 + 48 = 77$$

$$\Rightarrow 25 - \underline{25 \times 16} + 48 = 77$$

$$\Rightarrow \underline{25} - 400 + \underline{48} = 77$$

$$\Rightarrow \underline{73 - 400} = 77$$

$$\Rightarrow -327 \neq 77$$

4.  $\times$  and  $-$

$$25 + \underline{200 \div 8} - 16 \times 48 = 77$$

$$\Rightarrow 25 + 25 - \underline{16 \times 48} = 77$$

$$\Rightarrow \underline{25 + 25} - 768 = 77$$

$$\Rightarrow \underline{50 - 768} = 77$$

$$\Rightarrow -718 \neq 77$$

Hence, ' $\div$  and  $\times$ ' is the correct answer.

13. Answer: d

## Your Personal Exams Guide

**Explanation:**

The logic followed here is:



Hence, '1116' is the correct answer.

14. Answer: a

**Explanation:**

**Logic:** The second word is an instantiation of the first word.

Here, Colour : Red → Red is an instantiation of a colour.

Similarly,

Vehicle : ? → A truck is an instantiation of a vehicle.

Hence, the correct answer is **"Truck"**.

**15. Answer: d**

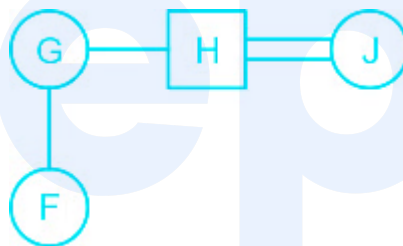
**Explanation:**

A is				
<b>Symbol</b>	^	%	=	&
<b>Meaning</b>	Husband	Father	Sister	Daughter
to B				

$F \& G = H \wedge J \rightarrow F$  is daughter if G, G is sister of H, H is husband of J.

By using the symbols in the table given below, we can draw the following family tree:

Symbol in Diagram	Meaning
○	Female
□	Male
══	Married Couple
—	Siblings
	Difference of a Generation



1. H and F are siblings. → False (F is niece of H)
2. F is the daughter of J. → False (F is niece of J)
3. G is the mother of J. → False (G is sister-in-law of J)
4. J is the wife of G's brother. → True

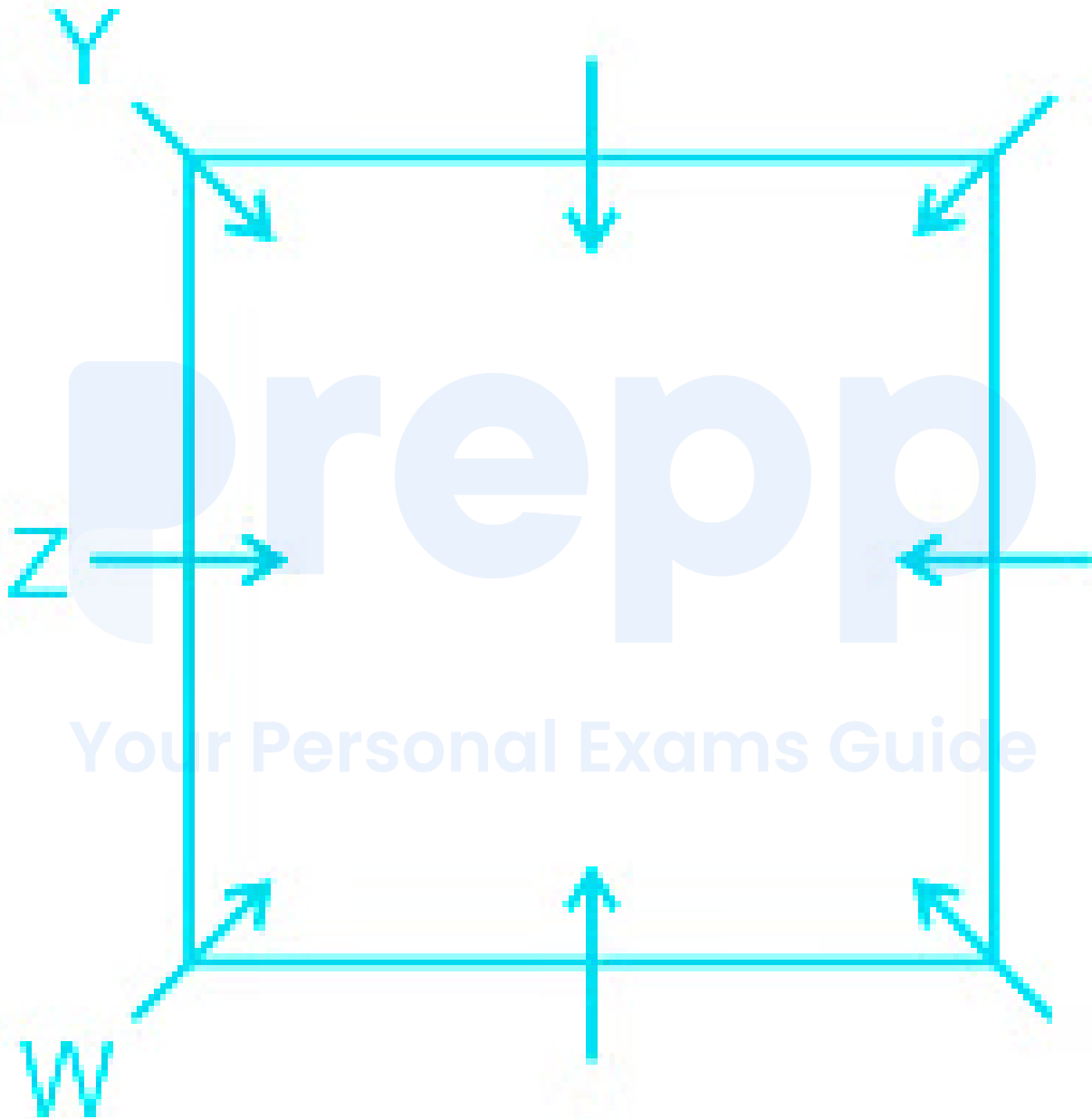
Hence, '**J is the wife of G's brother**' is the correct answer.

16. Answer: c

Explanation:

V, W, X, Y, Z, A, B and C were sitting around a square table facing the centre. Some of these were sitting at corners and some were sitting at exact centre of the sides.

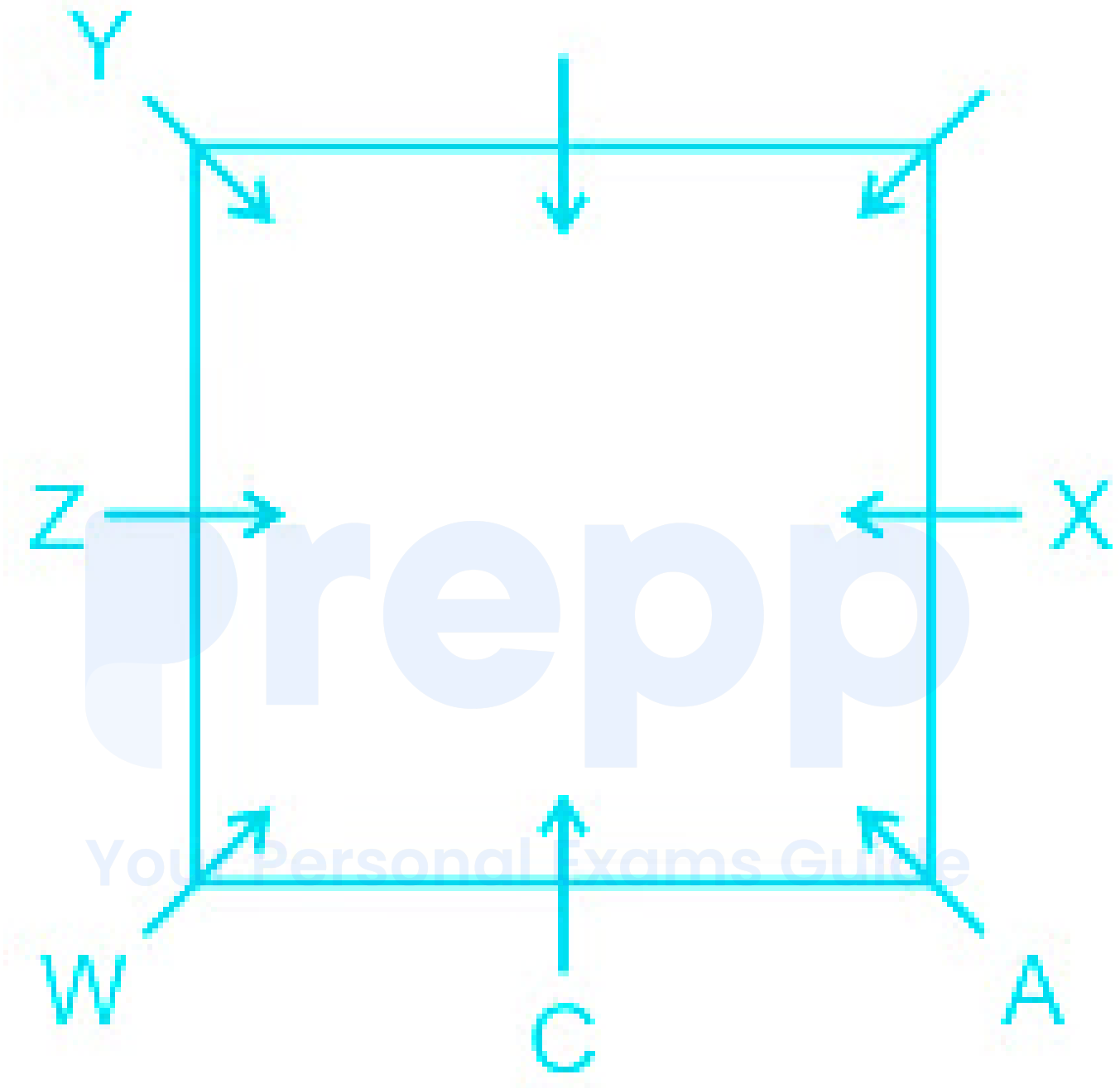
1. Z, not at any corner, was the immediate neighbour of W and Y.



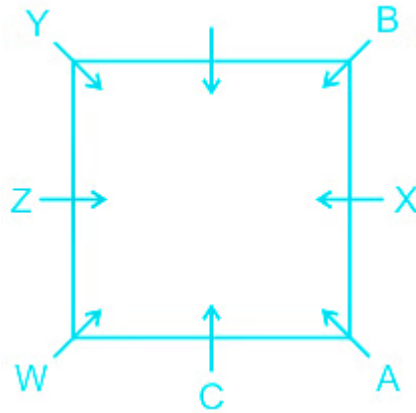
2. C was to the immediate right of W.

3. A was the immediate neighbour of X and C.

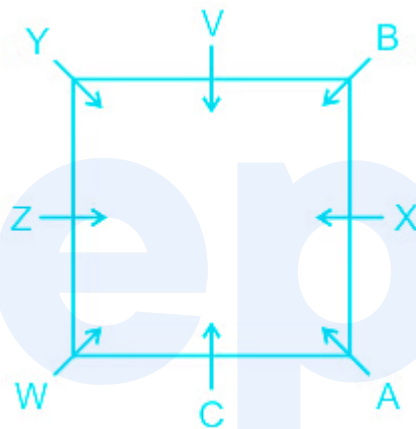




4. B was third to the left of Z.



Clearly, V the only person left will occupy the vacant position.



C









Clearly, V is sitting third to the right of A.

Hence, 'V' is the correct answer.

**17. Answer: b**

**Explanation:**

The image embedded in given figure is as shown below:

No.	Option	Question	Answer
1.			Not Embedded
2.			Embedded
3.			Not Embedded
4.			Not Embedded

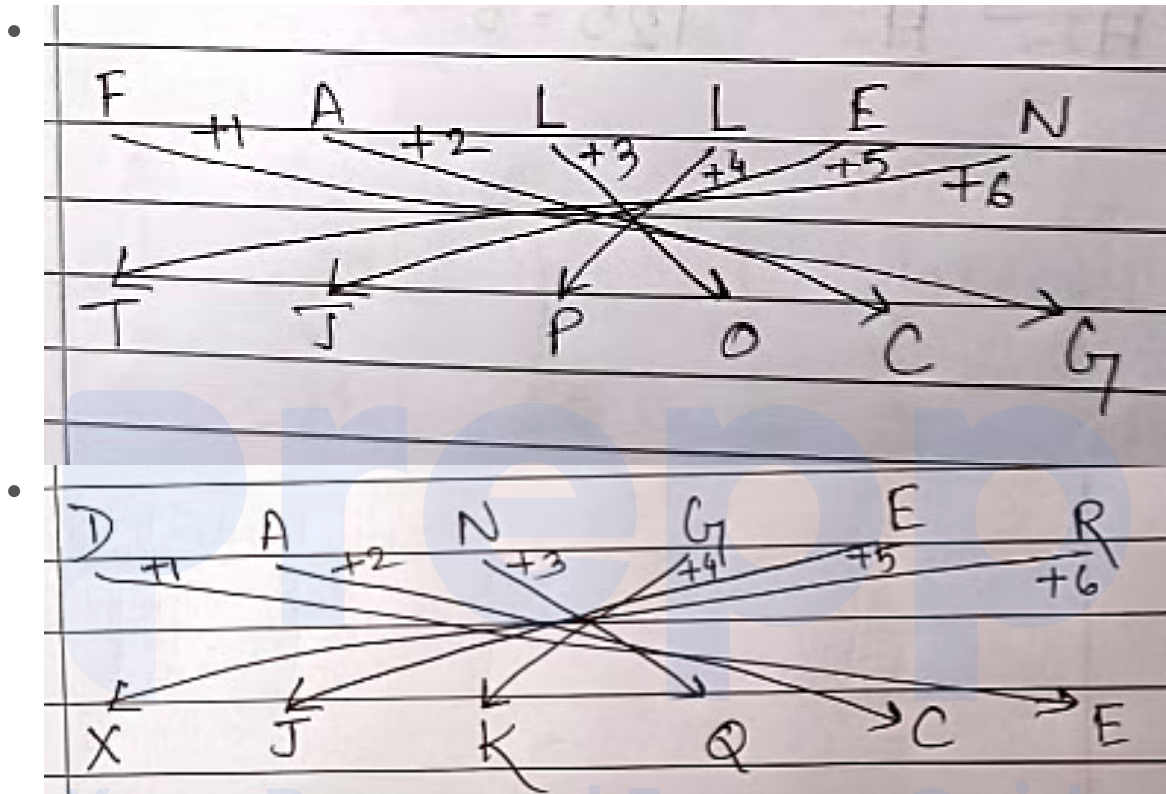
Hence, 'option 2' is the correct answer.

18. Answer: b

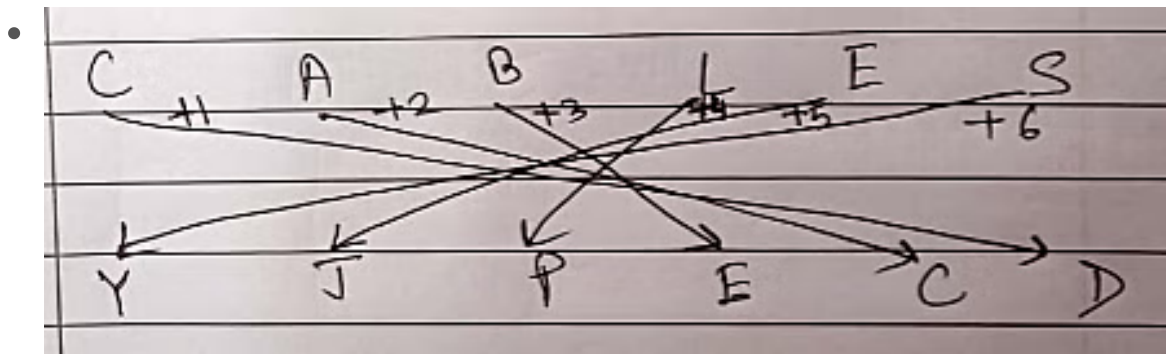
**Explanation:**

The logic followed here is:

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



Similarly,



Hence, 'YJPECD' is the correct answer.

19. Answer: d

Explanation:

The logic followed here is:

$$\begin{array}{ccccccc} \text{U} & \xrightarrow{+7} & \text{B} & \xrightarrow{+7} & \text{I} & \xrightarrow{+7} & \text{P} \xrightarrow{+7} \text{W} \\ \text{H} & \xrightarrow{-4} & \text{D} & \xrightarrow{-3} & \text{A} & \xrightarrow{-2} & \text{Y} \xrightarrow{-1} \text{X} \end{array}$$

Hence, 'WX' is the correct answer.

20. Answer: b

Explanation:

The option that indicates the correct arrangement of the given words in the order they appear in an English dictionary is given below :

4 Picked

5 Pickle

2 Pile

1 Pillow

3 Pint

Hence, "Option 2: 4, 5, 2, 1, 3" is the correct answer.

21. Answer: c

Explanation:

The correct answer is Durgesh Pathak.

★ Key Points

- **Durgesh Pathak** is an Indian politician and **Member of Legislative Assembly in Delhi**.
- He is a **senior member of the Aam Aadmi Party** and **Political Affairs Committee and National Executive In-charge of the party**.

★ Additional Information

- **Sanjeev Jha** is an Indian politician belonging to the **Aam Aadmi Party**.
  - He is a member of the **Delhi Legislative Assembly from Burari Constituency**.
  - **Sanjeev** is also the **incharge of Chhattisgarh and Spokesperson of the Aam Aadmi Party**.
- **Manoj Kumar Tiwari (born 1 February 1971)** is an Indian politician, singer and actor serving as a **Member of Parliament from North East Delhi**.
- **Adarsh Shastri** is an Indian politician represented **Dwarka**.
  - He is former leader of **Aam Aadmi Party** and Now **Leader Of Indian National Congress** and a **social entrepreneur** involved in **promotion of education and other social causes**.

22. Answer: d

**Explanation:**

The correct answer is Part XIV.

★ Key Points

- **The Union Public Service Commission (UPSC) of India** is mentioned in **Part XIV of the Constitution of India**.
- More specifically, it's in **Chapter II of this part, titled "Services Under the Union and the States"**.
- The relevant articles for the powers, functions, and responsibilities of the UPSC are primarily **Articles 315 to 323**.

- Here's a brief outline:
  - **Article 315** speaks about the existence of the UPSC and State Public Service Commissions.
  - **Article 316** covers the appointment and term of office of members.
  - **Article 317** provides conditions for removal of a member.
  - **Article 318** is about the power to make regulations about the commission's workings.
  - **Article 319** discusses restrictions on the employment of commission members after ceasing to hold office.
  - **Article 320** describes the functions of the Public Service Commissions.
  - **Article 321** authorizes extension of functions of Public Service Commissions.
  - **Article 322** relates to expenses of the Public Service Commissions.
  - **Article 323** speaks about the reports of Public Service Commissions.

★ Additional Information

- **Part XVII of the Constitution of India** is titled "**Official Language**".
  - It contains **Articles 343 to 351**, which deal with the languages that should be used for the **Union government, for the states, and for communication between the two**.
- **Part XV of the Constitution of India** is titled "**Elections**".
  - It contains **Articles 324 to 329A**, which deal with the provisions related to the **election process in India**.
- **Part XVI of the Constitution of India** is titled "**Special Provisions Relating to Certain Classes**".
  - It contains **Articles 330 to 342**, which address provisions related to **Scheduled Castes, Scheduled Tribes, and Anglo-Indians**.

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23. **Answer: d**

**Explanation:**

The correct answer is **Rashtriya Uchcharat Shiksha Abhiyan**.

★ Key Points

- The Rashtriya Uchchatar Shiksha Abhiyan is the central government's contribution to further the promise held by the rich expanse of India's state universities.
- The country's future lies in empowering these campuses with all that it takes to enhance learning, better research and promote innovation.
- A centrally sponsored scheme, RUSA understands that sometimes the most important lessons of life are learnt outside the classroom.
- So whether it is upgrading libraries or computer laboratories, promoting autonomous colleges or clubbing them to consolidate their strength and forming cluster universities, this programme realizes that every institution holds the power to enrich lives through top-class education.

★ Additional Information

- The following are the primary components of RUSA that capture the key action and funding areas that must be pursued for the fulfilment of the targets:
  - Up gradation of existing autonomous colleges to Universities
  - Conversion of colleges to Cluster Universities
  - Infrastructure grants to Universities
  - New Model Colleges (General)
  - Upgradation of existing degree colleges to model colleges
  - New Colleges (Professional)
  - Infrastructure grants to colleges
  - Research, innovation and quality improvement
  - Equity initiatives
  - Faculty Recruitment Support
  - Faculty improvements
  - Vocationalisation of Higher Education
  - Leadership Development of Educational Administrators
  - Institutional restructuring & reforms
  - Capacity building & preparation, data collection & planning

---

24. Answer: b



## Explanation:

The correct answer is Sikkim.

### ★ Key Points

- The famous **Losoong festival** is primarily celebrated in the **state of Sikkim**.
- It is a significant cultural event that marks the end of the **harvest season** and the **beginning of a new agricultural year**.
- During the festival, people engage in various **traditional activities**, including **music, dance, archery, and religious ceremonies**.

### ★ Additional Information

- **Assam:**
  - Assam is a state located in **northeastern India**.
  - Some of the major festivals celebrated in **Assam** include **Bihu (a series of three harvest festivals), Durga Puja, and Rongali Bihu**.
- **Manipur:**
  - Manipur is another state located in **northeastern India**.
  - Some of the major festivals celebrated in Manipur include **Lai Haraoba (a festival honoring the deities of the Manipuri mythology), Yaoshang (a six-day Holi festival celebrated with traditional dances and sports), and Ningol Chakouba (a festival honoring the bond between brothers and sisters)**.
- **Rajasthan:**
  - Rajasthan is a state in **northern India**, known for its **vibrant culture and heritage**.
  - Rajasthan has its own unique festivals, including the famous **Pushkar Camel Fair, Desert Festival, and Gangaur festival**, which celebrate the region's traditions, folklore, and religious customs.

---

25. Answer: b

## Explanation:

The correct answer is 47.

★ Key Points

- These are just a few examples of the **47 sports** featured in the **2018 Asian Games**.
- Each sport has its own set of rules and regulations, and athletes from various countries compete in these events to showcase their skills and compete for medals.
- The **Asian Games** are a **prestigious multi-sport event** that brings together athletes from across Asia to celebrate sportsmanship and competition.

★ Additional Information

- The Chinese city of Hangzhou hosted the **2022 Asian Games**.
- **India** has hosted the Asian Games twice, that is in **1951** and in **1982**.
- The **first Asian Games** were held from **4 March to 11 March 1951** in **New Delhi**.

---

26. **Answer: c**

**Explanation:**

The correct answer is rich landowners.

★ Key Points

- During the **Chola period**, the titles of **Muvendavelan** and **Araiyandar** were associated with **rich landowners** or **feudal lords**.
- These titles were bestowed upon individuals who owned **vast lands** and held significant **economic and social power** during the **Chola dynasty**.

★ Additional Information

- The **Chola dynasty** was one of the **longest-ruling and most influential dynasties** in the history of **South India**.
- It emerged around the **9th century CE** and reached its peak during the period from the **10th to the 13th century CE**.

- The Chola kingdom was primarily located in the region known as the Tamil Nadu in present-day South India.
- Their capital city was initially Uraiyur and later shifted to Thanjavur (also known as Tanjore).
- The kingdom was divided into administrative units called mandalams, which were further divided into smaller divisions known as valanadus.
- The Brihadeeswarar Temple in Thanjavur, built by King Rajaraja Chola I, is a UNESCO World Heritage Site and a remarkable example of Chola architecture.
- The epic poem "Silappadikaram" and the literary work "Tirukkural" are among the notable contributions of this era.

27. Answer: b

Explanation:

The correct answer is Odissi.

★ Key Points

- Odissi is one of the eight classical dance forms of India and originated in the state of Odisha.
- It is known for its graceful movements, intricate footwork, expressive gestures, and lyrical storytelling.
- Guru Pankaj Charan Das was a renowned Odissi dancer, choreographer, and teacher who played a significant role in the revival and popularization of Odissi during the 20th century.

★ Additional Information

- Manipuri:
  - Manipuri is one of the classical dance forms of India that originated in the northeastern state of Manipur.
  - Manipuri dance often depicts mythological stories, devotional themes, and the cultural traditions of Manipur.
  - It incorporates elements of music, rhythm, storytelling, and spirituality.
- Mohiniyattam:

- Mohiniyattam is a classical dance form that originated in the state of Kerala, located in southwestern India.
- Mohiniyattam is often performed solo by female dancers and combines elements of dance, music, and mime. It depicts mythological stories, devotional themes, and the cultural heritage of Kerala.
- **Kathak:**
  - Kathak is a classical dance form that originated in North India, particularly in the regions of Uttar Pradesh and Rajasthan.
  - It is characterized by its rhythmic footwork, fast spins, intricate hand gestures, and storytelling through mime and expressions.
  - Kathak dance has both Hindu and Islamic influences and often portrays mythological stories, historical events, and love tales.
  - It also includes elements of improvisation and rhythmic patterns called *tatkar*.

28. Answer: d

**Explanation:**

The correct answer is Textile Industry.

★ Key Points

- The industry being spoken about here is the **Indian Textile Industry**.
- The **Indian Textile Industry** is often described as **self-reliant and complete in the value chain**.
- It encompasses the entire process from **raw material production, such as cotton, silk, wool, and jute, to the manufacturing of various textile products, including yarn, fabrics, garments, and home textiles**.
- India has a **rich heritage in textiles**, and the industry plays a crucial role in the **country's economy, providing employment to millions of people and contributing significantly to exports and GDP**.
- The **Indian Textile Industry** is known for its diverse range of textiles, traditional craftsmanship, and the ability to produce high-value added products.

★ Additional Information

- **Small Scale Industries (SSI)**, also known as **Small and Medium Enterprises (SMEs)**, are businesses **characterized by their small size, limited investment, and operational scale.**
- **The iron and steel industry** is a significant sector in the **manufacturing and infrastructure development of a country.**
- Private sector industries refer to businesses that are owned, controlled, and operated by **private individuals or private companies** rather than by the **government or public entities.**

29. **Answer: c**

**Explanation:**

The correct answer is Khan Abdul Ghaffar Khan.

★ Key Points

- **Khan Abdul Ghaffar Khan**, the founder of the '**Khudai Khidmatgars,**' was a prominent leader in the **freedom struggle** and advocated for **non-violence, social justice, and independence.**
- His movement played a crucial role in mobilizing people against **British colonial rule** and **promoting peace and unity in the region.**

★ Additional Information

- **Syed Ahmad Khan:**
  - Syed Ahmad Khan was a prominent figure during the **19th century in India.**
  - He was a philosopher, educator, and social reformer who advocated for **modern education and social upliftment of the Muslim community.**
  - He founded the **Aligarh Movement** and played a key role in the **establishment of the Aligarh Muslim University.**
- **Abul Kalam Azad:**
- **Abul Kalam Azad** was a prominent **Indian freedom fighter** and a senior leader of the **Indian National Congress** during the independence movement.

- He was an advocate of Hindu-Muslim unity and played a significant role in shaping India's education system as the first Minister of Education in independent India.
- **Mohammad Ali Jinnah:**
  - Mohammad Ali Jinnah was a **lawyer, politician, and the founder of Pakistan.**
  - He played a significant role in the **creation of Pakistan as a separate nation for Muslims in the Indian subcontinent.**
  - Jinnah was a leader of the **All India Muslim League and served as Pakistan's first Governor-General until his death in 1948.**

30. **Answer: a**

**Explanation:**

The correct answer is vertebrates.

★ Key Points

- **Vertebrates:**
  - **Vertebrates** are a **subphylum of chordates** that **possess a backbone or vertebral column.**
  - They are characterized by having a **well-developed internal skeleton, including a skull that protects the brain, and a backbone made up of vertebrae.**
  - **Vertebrates** include **fish, amphibians, reptiles, birds, and mammals.**

★ Additional Information

- **Protochordates:**
  - **Protochordates** are a **subphylum of chordates** that includes organisms with **simple body structures and characteristics similar to the ancestors of vertebrates.**
  - They are considered the closest relatives of vertebrates and include three major groups: **tunicates, lancelets, and hagfish.**
- **Mollusca:**

- **Mollusca** is a phylum of invertebrates that includes animals such as snails, clams, squids, and octopuses.
- Mollusks typically have a soft body, often protected by a hard shell, and are characterized by a muscular foot, a mantle that secretes the shell (if present), and a visceral mass.
- **Arthropoda:**
  - **Arthropoda** is a phylum of invertebrates that includes insects, spiders, crustaceans, and other related organisms.
  - Arthropods are characterized by having segmented bodies, jointed appendages, and an exoskeleton made of chitin.
  - They are the most diverse group of animals on Earth.

31. Answer: b

Explanation:

The correct answer is Henry Walter.

★ Key Points

- The first complete census of an Indian city conducted in 1830 hasn't been definitively attributed to a particular individual or organization.
- A **census** is an official systematic survey of the population of a country.
- **Census** is a process of collecting, compiling, analyzing, evaluating, publishing and disseminating **statistical data** regarding the population of a country.
- It covers demographic, social and economic data.

★ Additional Information

- The **first complete Census** was taken in India in 1872 under British Viceroy Lord Mayo.
- **Lord Mayo** was the Viceroy of India from 1869 to 1872.
- A systematic and modern population census, in its present form was conducted **non- synchronously between 1865 and 1872** in different parts of the country.

- This effort culminating in **1872** has been popularly labeled as the **first population census of India**.
- However, the **first synchronous census** in India was held in **1881**.
- Since then, **censuses** have been undertaken uninterruptedly once in every **ten years**.

32. Answer: c

**Explanation:**

The correct answer is 1952.

★ Key Points

- **National Development Council** was formed on **6 August 1952** in India.
- The **Prime Minister of India** used to be its **ex-officio chairman**.
- **National Development Council (NDC)** or the **Rashtriya Vikas Parishad** is the apex body for decision making and deliberations on development matters in India presided over by the Prime Minister.
- **National Development Council** was set up on **August 6, 1952**, to strengthen and mobilize the effort and resources of the nation in support of the Plan, to promote common economic policies in all vital spheres, and to ensure the balanced and rapid development of all parts of the country.
- It is a **pivotal organisation** that is bound to play a vital role in the country's development process.
- The **National Development Council** comprises the following members -
  - **Indian Prime Minister**
  - **All the Union Cabinet Ministers**
  - **Chief Ministers of all States or their substitutes**
  - **Representatives of the union territories and**
  - **The members of the NITI Aayog (erstwhile planning commission).**
- **Objectives of the National Development Council**
  - To **strengthen and mobilize the effort and resources** of the nation in support of the Plan.
  - To **promote common economic policies in all vital spheres**.

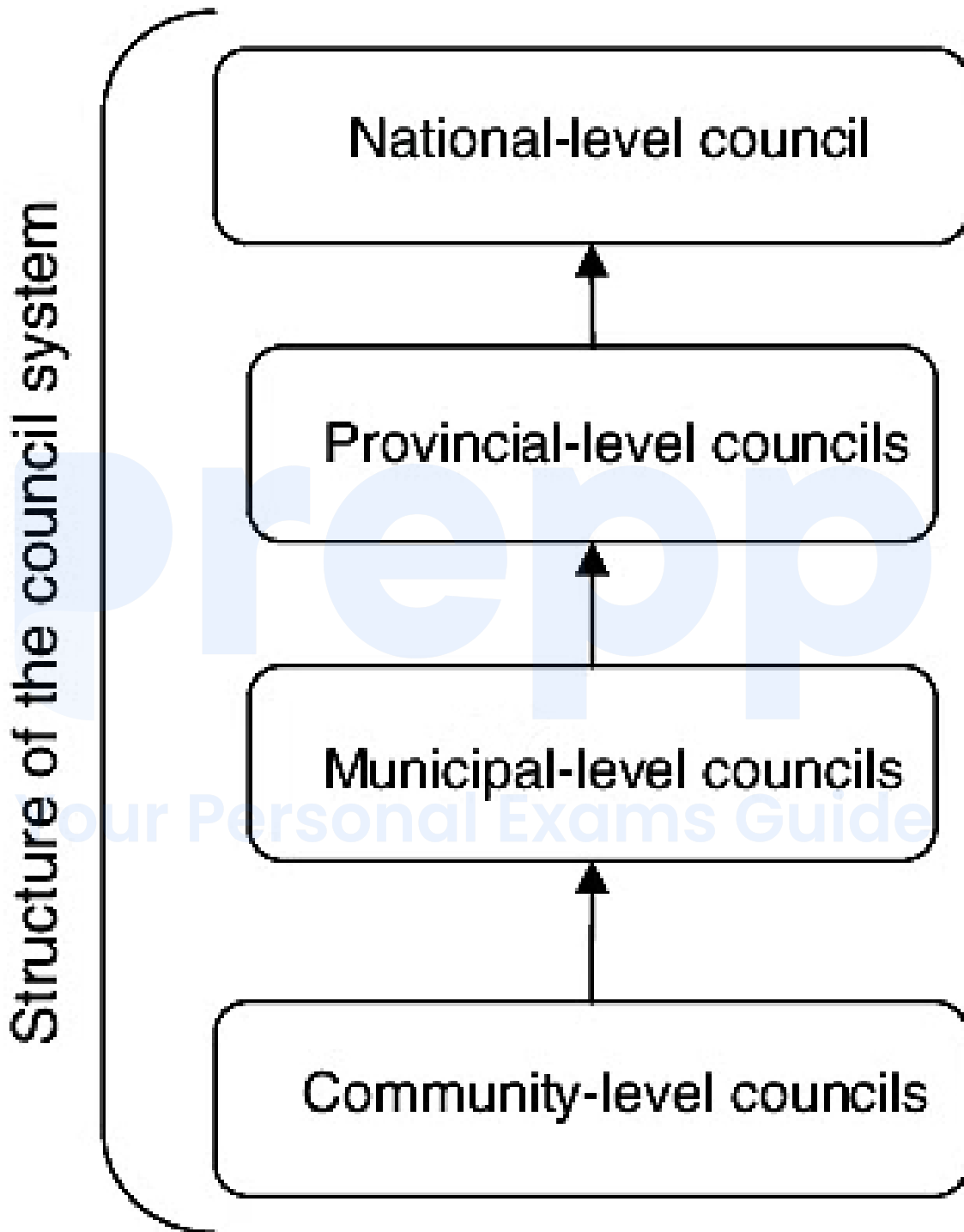


- To ensure the balanced and rapid development of all parts of the country.
- In addition to this, **NDC provides a platform for all the states** to discuss their problems and issues related to development.
- Thus, it **secures the cooperation of the states in the execution of developmental plans.**

# prepp

## Your Personal Exams Guide

- Structure of Council-System:



33. Answer: b

Explanation:

The correct answer is Manjamma Jogati.

★ Key Points

- Manjamma Jogathi, is an Indian Kannada theatre actress, singer, and dancer of Jogathi Nritya, a folk dance form of North Karnataka.
- In 2019, she became the first transgender woman to be the president of Karnataka Janapada Academy, the state's top institution for folk arts.
- She was born on 20 May 1957.
- A folk dance is a dance that reflects the life of the people of a certain country or region.
- Not all ethnic dances are folk dances. For example, ritual dances or dances of ritual origin are not considered to be folk dances.

★ Additional Information

- The Padma Awards are announced annually on the eve of Republic Day. This is one of the highest civilian honours of India.
- Padma Awards were started in the year 1954.
- The highest civilian award of India is **Bharat Ratna** which is awarded to a maximum of **3 awardees** in a particular year.

34. Answer: a

Explanation:

The correct answer is Samant Goel.

★ Key Points

- Samant Kumar Goel is an Indian civil servant, intelligence officer, and member of the **Indian Police Service (IPS)** cadre.
- He is currently serving as the chief of the Research and Analysis Wing (**R&AW**), India's foreign intelligence agency.
- He was appointed as chief on **June 26, 2019**, replacing Anil Dhasmana, and in June 2022, **his tenure was extended until June 30, 2023**.

★ Additional Information

- **RAW (Research and Analysis wing)** is India's External Intelligence agency.
- Headquartered in **New Delhi**.
- RAW came into being on **September 21st, 1968**, after the **Sino-Indian war of 1962** and the **India-Pakistan war of 1965**, which exposed gaps in intelligence gathering undertaken by the Intelligence Bureau.
- **RAW's first director** was **Rameshwar Nath Kao**.
- The head of RAW is called the **"Secretary"** (research) in the cabinet secretariat.

---

35. Answer: b

**Explanation:**

The correct answer is Personal Disposable Income  $\equiv$  Personal Income – Personal tax payments – Non-tax payments.

★ Key Points

Personal disposable income(DPI):

- It is the **amount of money** that an **individual or household** has to spend or **save** after income taxes have been deducted.
- It is **also known as disposable income**.
- At the macro level, disposable personal income is closely **monitored as one of the key economic indicators** used to **gauge the overall state of the economy**.
- **Formula:**
  - Personal disposable income = personal income – personal tax payment – non-tax payment

★ Additional Information

- **Significance:**
  - Disposable income is the portion of income **available to an income earner after all income taxes are deducted.**
  - It is **used by analysts** to measure **consumer spending**, payment ability, probable future savings, and the overall **health of a nation's economy.**
  - Disposable income can be **used to determine the financial reserves of households** and the **money available to be spent** on goods and services.

36. **Answer: c**

**Explanation:**

The correct answer is Q.

★ Key Points

- Atomic radius –
  - The shortest distance between the atom's nuclei and the outermost shell of the atom is called the 'Atomic Radius'.
  - The exact value of the atomic radius of an atom cannot be known.
  - Because the atom is not found in a free state nor can the exact position of the electron be known.
  - In general, the atomic radius decreases across a period and increases down a group.

★ Additional Information

Element	Symbol	Atomic Radius (pm)
Lithium	Li	152
Beryllium	Be	112
Boron	B	87
Oxygen	O	66

- Please note that these atomic radii values are approximate and may vary depending on the source and method of measurement. They are expressed in picometers (pm), where  $1 \text{ pm} = 1 \times 10^{-12} \text{ meters}$ .

37. Answer: a

Explanation:

The correct answer is 137th Session held virtually.

★ Key Points

- Olympic Agenda **2020+5** is an extension and enhancement of the IOC's strategic roadmap, introduced by Thomas Bach, the IOC president.
- It builds on Olympic Agenda 2020's framework, adding 15 new recommendations, leading to a total of 40 key initiatives.
- **The major areas it focuses on are:**
  - Preserving the uniqueness of the Olympic Games and their universal appeal.
  - Creating more sustainable and economically feasible Olympic Games to minimize the financial burden.
  - Upholding integrity in sports and protecting the rights of athletes.
  - Using Sport as an Enabler for the UN's Sustainable Development Goals.
- Olympic Agenda 2020+5 was discussed in detail and unanimously approved at the 137th IOC Session held in **March 2021**.

★ Additional Information

- **International Olympic Committee:**
  - It was formed in June **1894**.
  - It was founded by **Pierre de Coubertin** and **Demetrios Vikelas** in **1894**.
  - It is Headquartered in **Lausanne, Switzerland**.
  - It has currently **105 active members**.
  - Its current **President** is **Thomas Bach** from **Germany**.

38. **Answer: a**

### Explanation:

The correct answer is Arabian Sea.

#### ★ Key Points

- The Arabian Sea lies to the west of India.
- It is a region of the northern Indian Ocean.
- It is bounded by Pakistan and Iran, on the west by the Gulf of Aden, Guardafui Channel, and the Arabian Peninsula, on the southeast by the Laccadive Sea, on the southeast by Somali Sea, and on the east by India.

#### ★ Additional Information

- Bay of Bengal
  - The Bay of Bengal is in the northeastern part of the Indian Ocean.
  - The Bay of Bengal is bounded on the west and northwest by India, on the north by Bangladesh, and on the east by Myanmar and the Andaman and Nicobar islands of India.
- Indian Ocean
  - The Indian Ocean is the youngest among the Pacific and the Atlantic oceans.
  - Java Trench is a part of the Indian Ocean.
  - It stretches between the southern tips of Africa and Australia.
- Pacific Ocean
  - It is the largest and deepest ocean in the world.
  - Most of the islands of this ocean are volcanic or of coral origin.

- **Mariana Trench** is the deepest trench of the world, lies in there.
- The depth of this trench is **11033 km**.
- It is bounded by **some continents of Asia and Australia** from the west and the Americas in the east.
- It starts from the **Arctic ocean** in the North to the **Southern Ocean** in the South.

39. Answer: c

Explanation:

The correct answer is develop agriculture.

★ Key Points

- **First Five year Plan**
  - 1st five-year plan was for the period of **1951 to 1956**.
  - The target Growth was **2.1 %** and the Actual Growth was **3.6 %**.
  - It was based on **Harrod-Domar**.
  - The influx of refugees, severe food shortage & mounting inflation confronted the country at the onset of the **first five-year plan**.
  - The primary aim of the **1st five-year plan** was to improve the living standards of the people of India.
  - This could be done by making **judicious use of India's natural resources**.
  - The Plan focussed on **agriculture, price stability, power, and transport**.

★ Additional Information

- **Second Five Year Plan (1956-1961)**
  - The second five-year plan is based on the so-called **Mahalanobis model**.
  - This was the USSR model Indianized by **PC Mahalanobis**, the founder of the Indian Statistical Institute and a close aide of Nehru.
  - This model is known to have set the **statistical foundations for state-directed investments** and created the intellectual underpinnings of the license-raj through an elaborate input-output model.



- This Model suggested that there should be an **emphasis on the heavy industries**, which can lead the Indian Economy to a long-term higher growth path
- **Started Industrial policy Resolution 1956.**
- **Third Five-Year Plan (1961-1966)**
  - The Third 5 year Plan **focused on agriculture & enhancement in the production of wheat, but the succinct Sino - Indian War in the year 1962** exposed flaws in the economy & shifted the spotlight towards the Defence industry.
  - On **May 31 & June 1, 1961**, the National Development Council considered the Draft Report on the Third Plan and generally approved it.
  - In the course of this period, India's economy must not only enlarge swiftly but must, in unison, **become independent and self-generating.**
  - This long-standing approach is projected to offer a wide-ranging design of **expansion for the country's natural resources, industrial advance, and agricultural changes in the social structure & an incorporated scheme of regional & national development.**
- **Fourth Five Year Plan (1969-1974)**
  - The fourth Five Year Plan was the first plan launched by the **Indira Gandhi government amid the pressure of drought, devaluation, and inflationary recession.**
  - The country was fighting with **population explosion, increased unemployment, poverty, and a shackling economy.** In addition, the situation in East Pakistan (now independent Bangladesh) was becoming dire as the Indo-Pakistani War of 1971 and Bangladesh Liberation War took place.
  - **Funds earmarked for industrial development had to be used for the war effort.**
  - The result was that this plan period was also **no better than the third five-year plan.**

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40. Answer: a

Explanation:

The correct answer is 5.

★ Key Points

- **Article 14 to Article 18 of the Constitution of India guarantees the right to equality to every citizen of India.**
- This deals with the general principles of equality.
- **Article 14 of the constitution** states that:
  - The State shall not deny to any person equality before the law or the equal protection of the laws within the territory of India.
  - This article constitutes of 2 parts, being:
    - **Equality before law and**
    - **Equal protection of the laws**
- **Article 15** prohibits discrimination against citizens on such specific grounds as religion, race, caste, sex, or place of birth.
- **Article 16** guarantees equality of opportunity in matters of employment under the state. The right is available to citizens only.
- **Article 17** deals with a peculiar problem of our country. Howsoever praiseworthy the caste system in its origin might have been, it certainly proved to be a disgrace to humanity, a threat to unity, and a serious hindrance to the social, educational, and economic progress of our country.
- **Article 18** abolishes titles, other than a military or academic distinction.

★ Additional Information Your Personal Exams Guide

Article Number	Description
Article 2	Everyone is entitled to all the rights and freedoms set forth in the Declaration, without distinction of any kind, such as race, colour, sex, language, religion, political or other opinion, national or social origin, property, birth or other status.
Article 3	Everyone has the right to life, liberty and security of person.
Article 4	No one shall be held in slavery or servitude; slavery and the slave trade shall be prohibited in all their forms.

41. Answer: c

**Explanation:**

Formula used:

Average speed = Total distance / Total time.

Solution:

$$\text{Total distance} = (90 \text{ km/h} \times 10/60 \text{ h}) + (60 \text{ km/h} \times 25/60 \text{ h}) + (15 \text{ km/h} \times 4/60 \text{ h})$$

$$\Rightarrow 15 \text{ km} + 25 \text{ km} + 1 \text{ km} = 41 \text{ km}$$

$$\text{Total time} = 10/60 \text{ h} + 25/60 \text{ h} + 4/60 \text{ h}$$

$$\Rightarrow 39/60 \text{ h} = 13/20 \text{ h}$$

Average speed = Total distance / Total time

$$\Rightarrow 41 \text{ km} / (13/20 \text{ h}) = 41 \text{ km} \times (20/13) \text{ h} = 820/13 \text{ km/h} = 63\frac{1}{13} \text{ km/h}$$

Therefore, the average speed of the train is approximately  $63\frac{1}{13}$  km/h.

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42. Answer: d

**Explanation:**

Given: 125 small spheres

Concept used: The surface area of a sphere is given by the formula  $4\pi r^2$ , where  $r$  is the radius of the sphere.

Solution:

Diameter of the large sphere = 15 cm

Radius of the large sphere

$$\Rightarrow 15 \text{ cm} / 2 = 7.5 \text{ cm}$$

Radius of each small sphere = Radius of large sphere /  $\sqrt[3]{125}$

$$\Rightarrow 7.5 \text{ cm} / 5 = 1.5 \text{ cm}$$

The surface area of each small sphere

$$\Rightarrow 4\pi(1.5 \text{ cm})^2 = 4\pi(2.25 \text{ cm}^2) = 9\pi \text{ cm}^2$$

Therefore, the surface area of each small sphere is  $9\pi \text{ cm}^2$ .

**43. Answer: a**

**Explanation:**

**Given:**

Cost price of 15 articles = Rs. 10, Selling price of 10 articles = Rs. 15

**Concept used:**

The percentage profit is calculated by finding the difference between, the selling price and the cost price, divided by the cost price, multiplied by 100.

**Solution:**

$$\text{Cost price of 1 article} = \text{Rs. } 10 / 15 = \text{Rs. } 2/3$$

$$\text{Selling price of 1 article} = \text{Rs. } 15 / 10 = \text{Rs. } 3/2$$

Profit per article = Selling price of 1 article - Cost price of 1 article

$$\Rightarrow (3/2) - (2/3) = (9/6) - (4/6) = 5/6$$

$$\text{Profit for 15 articles} = \text{Profit per article} \times 15$$

$$\Rightarrow (5/6) \times 15 = 75/6 = \text{Rs. } 12.50$$

$$\text{Percentage profit} = (\text{Profit for 15 articles} / \text{Cost price of 15 articles}) \times 100$$

$$\Rightarrow (12.50 / 10) \times 100 = 125\%$$

Therefore, the salesman earned a profit of 125%.

#### 44. Answer: c

#### Explanation:

Given:

Time taken by Sohan and Rohan together = 18 days,

Time taken by Sohan alone = 27 days

Concept used:

The concept of work done and time taken to complete a task.

The relationship between work, time, and rate of work.

Solution:

Work done by Sohan and Rohan together

$$\Rightarrow 1/18 \text{ (as they can complete the work in 18 days)}$$

Work done by Sohan alone =  $1/27$  (as he can complete the work in 27 days)

Work done by Rohan alone = Work done by Sohan and Rohan together - Work done by Sohan alone

$$\Rightarrow 1/18 - 1/27 = 3/54 - 2/54 = 1/54$$

Time taken by Rohan alone to complete the work =  $1 / (1/54) = 54$  days

Therefore, Rohan alone takes 54 days to complete the same work.

45. Answer: c

**Explanation:**

**Given Data:**

$$A : B = 5 : 8$$

$$B : C = 4 : 7$$

**Concept:**

We use the property of ratios that allows us to combine two ratios to form a new ratio.

**Solution:**

$$\Rightarrow A : B : C = 5 : 8 : (8 \times 7 \div 4)$$

$$\Rightarrow A : B : C = 5 : 8 : 14$$

Hence, the ratio A : B : C is 5 : 8 : 14.

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46. Answer: d

**Explanation:**

Given:

Prime numbers 3, 5, 7, 11

Concept used:

Average is calculated by summing up the given numbers and dividing by the count of numbers.

Solution:

Sum of the four prime numbers =  $3 + 5 + 7 + 11 = 26$

Average = Sum of numbers / Number of numbers

$$\Rightarrow 26 / 4 = 6.5$$

Therefore, the average of the first four prime numbers that are odd is 6.5.

**47. Answer: a**

**Explanation:**

Concept:

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

Solution:

$$\Rightarrow 197 - [1 \div 9 \times (42 + 56 - 8 + 9) + 108]$$

$$\Rightarrow 197 - [1 \div 9 \times 99 + 108]$$

$$\Rightarrow 197 - [11 + 108]$$

$$\Rightarrow 197 - 119$$

$$\Rightarrow 78$$

Therefore, the value of the expression is 78.

---

**48. Answer: a**

**Explanation:**

**Given:**

A can complete the work in 8 days.

B can complete the work in 4 days.

C can complete the work in 16 days.

A is assisted by B and C on every second day.

**Concept Used:**

The concept of the least common multiple (LCM) is used to determine the time when A, B, and C align to work together.

**Calculation:**

The LCM of 8, 4, and 16, which is 16.

Total work = 16 units,

$$A \text{ efficiency} = 16/8 = 2 \text{ units/day}$$

$$B \text{ efficiency} = 16/4 = 4 \text{ units/day}$$

$$C \text{ efficiency} = 16/16 = 1 \text{ unit/day}$$

In first day,

A will complete 2 units of work

On the second day, A is assisted by B & C,



Units of work done on 2nd day,

$$\Rightarrow 2 + 4 + 1 = 7 \text{ units}$$

On 3rd day,

A will work,

2 units,

Total work done in 3 days,

$$\Rightarrow 2 + 7 + 2 = 11 \text{ units of work}$$

Remaining work =  $16 - 11 = 5$  units

on 4<sup>th</sup> day, A + B + C will work,

$$\Rightarrow \text{Time required} = 5/7$$

$$\text{Total time} = 3 + 5/7 = 26/7$$

$\therefore$  Required time to complete the work is  $26/7$  days.

49. Answer: a

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**Explanation:**

**Concept used:**

Divisibility rule of 16:

A number is divisible by 16 if it's divisible by both 2 and 8.

**Concept Used:**

Divisibility Rule of 2:

If a number is even or a number whose last digit is an even number

i.e. 2,4,6,8 including 0, is always completely divisible by 2.

Divisibility by 8 rule,

If the last three numbers are zero or divisible by 8,

the whole number is divisible by 8.

**Calculation:**

A number is divisible by 2 if its last digit is even (0, 2, 4, 6, or 8),

and by 8 if the number formed by the last three digits of the given number is divisible by 8.

16826: last digit is 6 (even) divisible by 2;

⇒ last three digits form 826 ⇒ not divisible by 8.

17776: last digit is 6 (even) divisible by 2;

⇒ last three digits form 776 ⇒ divisible by 8.

5168: last digit is 8 (even) divisible by 2;

⇒ last three digits form 168 ⇒ divisible by 8.

18016: last digit is 6 (even) divisible by 2;

⇒ last three digits form 016 ⇒ divisible by 8.

Therefore, the number 16826 is NOT divisible by 16.

---

**50. Answer: c**

**Explanation:**

Given:

Total votes = 17,500,

One candidate got 48% of the total valid votes,

18% of the votes were invalid.

**Concept used:**

The concept of percentages and finding a specific value when a percentage and total quantity are given.

**Solution:**

Invalid votes = 18% of 17,500 =  $0.18 \times 17,500 = 3,150$

⇒ Valid votes = Total votes - Invalid votes =  $17,500 - 3,150 = 14,350$

48% of valid votes =  $48/100 \times 14,350 = 6,888$

⇒ The number of valid votes the other candidate got is  $14,350 - 6,888 = 7,462$ .

Therefore, the number of valid votes the other candidate got is 7,462.

---

**51. Answer: a**

**Explanation:**

Given:

Loan: Rs. 1,50,000

Rate: 10% per annum

Period: 2 years

**Formula used:**

The formula for calculating equal installments with compound interest,

$$A = P \times [r(1 + r)^n] / [(1 + r)^n - 1],$$

**Calculation:**

$$A = 1,50,000 \times [0.10(1 + 0.10)^2] / [(1 + 0.10)^2 - 1]$$

$$\Rightarrow A = 1,50,000 \times [0.10(1.21)] / [1.21 - 1]$$

$$\Rightarrow A = 1,50,000 \times 0.121 / 0.21$$

$$\Rightarrow A = \text{Rs. } 86,428.57$$

Therefore, the value of the equal yearly installment is Rs. 86,428.57.

## 52. Answer: a

### Explanation:

Given:

Gain of 12% after a discount of 20%.

Formula Used:

Profit percentage = (Profit / Cost Price) x 100

Selling Price = Marked Price - Discount

Calculation:

Assume the Marked Price (MP) to be 100 units.

After a discount of 20%, Selling Price (SP1) is 80 units (100 - 20).

Profit of 12%,

$\Rightarrow$  Cost Price (CP) is  $SP1 / (1 + \text{Profit}\%)$

$\Rightarrow 80 / 1.12 = 71.43$  units approximately.

Selling at the marked price, the new Selling Price (SP2) is 100 units.

Profit = SP2 - CP

$$\Rightarrow 100 - 71.43 = 28.57 \text{ units.}$$

$$\text{Profit\%} = (\text{Profit} / \text{CP}) \times 100$$

$$\Rightarrow (28.57 / 71.43) \times 100 = 40\% \text{ approximately.}$$

Therefore, the profit percentage when sold at marked price with no discount is 40%.

**53. Answer: b**

**Explanation:**

**Given:**

Two equal sides of a triangle.

Third side is 1.5 times any of the equal sides.

Perimeter of the triangle is 14 units.

**Formula Used:**

$$\text{Area of triangle} = 1/2 \times \text{base} \times \text{height}$$

**Calculation:**

Let  $x$  be the length of the equal sides

and  $1.5x$  be the length of the third side.

$$\Rightarrow x + x + 1.5x = 14$$

$$\Rightarrow 3.5x = 14$$

$$\Rightarrow x = 14 \div 3.5 = 4 \text{ units}$$

$$\text{Third side} = 1.5 \times 4 = 6 \text{ units}$$

Height of the triangle,

$$\Rightarrow h = \sqrt{4^2 - (6/2)^2}$$

$$\Rightarrow \sqrt{16 - 9} = \sqrt{7} \text{ units}$$

Area of triangle =  $1/2 \times \text{base} \times \text{height}$

$$\Rightarrow 0.5 \times 6 \times \sqrt{7} = 3\sqrt{7} \text{ square units.}$$

Therefore, the area of the triangle is  $3\sqrt{7}$  square units.

**54. Answer: d**

**Explanation:**

Given:

80% of voters voted.

B got 50% less votes than A.

B got 10% more votes than C.

The difference in votes between B and C is 10000.

Calculation:

Let  $V$  = Total number of registered voters.

Let  $a$ ,  $b$ , and  $c$  = votes for A, B, and C respectively.

$$\Rightarrow 0.8V = a + b + c \quad (1)$$

$$\Rightarrow b = 0.5a \quad (2)$$

$$\Rightarrow b = 1.1c \quad (3)$$

$$\Rightarrow b - c = 10000 \quad (4)$$

Using equations (3) and (4):

$$\Rightarrow 0.1c = 10000$$

$$\Rightarrow c = 100000$$

Using equations (2) and (3):

$$\Rightarrow 0.5a = 1.1c$$

$$\Rightarrow a = 2.2 \times 100000 = 220000$$

From equation (2):

$$\Rightarrow b = 0.5 \times 220000 = 110000$$

Now, substitute values of a, b, and c into equation (1):

$$\Rightarrow 0.8V = 220000 + 110000 + 100000$$

$$\Rightarrow V = 430000 \div 0.8 = 537500$$

Therefore, the total number of registered voters is 537500.

---

55. Answer: d

**Explanation:**

Given:

Difference between the selling prices = Rs. 60,

one item sold at a profit of 10% and the other at a loss of 5%.

**Concept used:**

The concept of cost price, selling price, and profit/loss percentage.

The difference in selling prices is used to determine the cost price.

**Solution:**

Let the cost price of each item be  $x$ .

Selling price of the first item =  $x + 10\%$  of  $x = x + 0.1x = 1.1x$

Selling price of the second item =  $x - 5\%$  of  $x = x - 0.05x = 0.95x$

Given that the difference in selling prices is Rs. 60:

$$\Rightarrow 1.1x - 0.95x = 60$$

$$\Rightarrow 0.15x = 60$$

$$\Rightarrow x = 60 / 0.15$$

$$\Rightarrow x = 400$$

Sum of the cost price of the two items =  $x + x = 400 + 400 = \text{Rs. } 800$

Therefore, the sum of the cost price of the two items is Rs. 800.

---

56. Answer: a

Explanation:

Given:

$$L_1 = 550 \text{ m}, S_1 = 68 \text{ km/h}$$

$$L_2 = 650 \text{ m}, S_2 = 40 \text{ km/h}$$

Calculation:

$$\Rightarrow S_1' = 68 \times (1000/3600) = 18.89 \text{ m/s}$$

$$\Rightarrow S_2' = 40 \times (1000/3600) = 11.11 \text{ m/s}$$

Calculate the relative speed ( $S$ ) and total distance ( $D$ ):

$$\Rightarrow S = S_1' + S_2' = 18.89 \text{ m/s} + 11.11 \text{ m/s} = 30 \text{ m/s}$$



$$\Rightarrow D = L_1 + L_2 = 550 \text{ m} + 650 \text{ m} = 1200 \text{ m}$$

Calculate the time (T) using  $T = D/S$ :

$$\Rightarrow T = D / S = 1200 \text{ m} / 30 \text{ m/s} = 40 \text{ seconds}$$

Hence, the trains will cross each other in 40 seconds

**57. Answer: d**

**Explanation:**

**Given:**

Average speed without stoppages = 75 km/h,

Average speed with stoppages = 65 km/h

**Concept used:**

The concept of average speed, time, and distance.

The relationship between time spent traveling and time spent stopping is used to calculate the time the train stops per hour.

**Solution:**

Let the time the train stops per hour be x minutes.

Time spent traveling per hour = 60 minutes - x minutes

Distance covered without stoppages = Average speed without stoppages  $\times$  Time spent traveling per hour

Distance covered with stoppages = Average speed with stoppages  $\times$  60 minutes

Since the distance covered is the same, we can equate the two expressions:

$$\text{Average speed without stoppages} \times (60 - x) = \text{Average speed with stoppages} \times 60$$

$$\Rightarrow 75 \times (60 - x) = 65 \times 60$$

$$\Rightarrow 4500 - 75x = 3900$$

$$\Rightarrow -75x = -600$$

$$\Rightarrow x = 8 \text{ minutes}$$

Therefore, the train stops for 8 minutes per hour.

## 58. Answer: d

### Explanation:

#### Given:

Numbers are 7, 9, 11, and 15.

After subtracting a common number, the resulting numbers are in proportion.

#### Concept Used:

If  $a/b = c/d$ , then  $a$ ,  $b$ ,  $c$ , and  $d$  are said to be in proportion.

For the given problem,

this becomes  $(7 - x) / (9 - x) = (11 - x) / (15 - x)$ .

#### Calculation:

$$\Rightarrow (7 - x) / (9 - x) = (11 - x) / (15 - x)$$

$$\Rightarrow (7 - x) \times (15 - x) = (9 - x) \times (11 - x)$$

$$\Rightarrow 105 - 7x - 15x + x^2 = 99 - 9x - 11x + x^2$$

$$\Rightarrow -22x + 105 = -20x + 99$$

$$\Rightarrow -22x + 20x = 99 - 105$$

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

$$\Rightarrow x = 3$$

Therefore, the number that is subtracted from each of the given numbers to make the resulting numbers in proportion is 3.

**59. Answer: d**

**Explanation:**

**Given:**

Principal amount (P): Rs. 8,000

Compound interest rate (r): 10% per annum

Compounding frequency: half-yearly

Time (t): 18 months or 1.5 years

**Formula used:**

The formula for compound interest when compounded half-yearly is:

$$A = P \times \left(1 + \frac{r}{2 \times 100}\right)^{2n},$$

where A is the total amount after n years,

P is the principal amount,

r is the annual interest rate,

and n is the number of years.

**Calculation:**

Using the formula,

$$A = P \times \left(1 + \frac{r}{2 \times 100}\right)^{2n},$$

$$\Rightarrow A = 8000 (1 + 10/(2 \times 100))^{2(1.5)}$$

$$\Rightarrow A = 8000(1 + 1/20)^3$$

$$\Rightarrow A = 8000 \times 21/20 \times 21/20 \times 21/20$$

$$\Rightarrow A = 9261$$

∴ The amount she will receive after 18 months is 9261.

**60. Answer: a**

**Explanation:**

**Given:**

X offers two successive discounts of 12% and 8%,

Y offers a flat discount of 20%

**Concept used:**

The concept of discounts and calculating the overall discount percentage.

The difference between the discount percentages is found.

**Solution:**

Let the original price of the item be Rs. 100.

Discount given by X = 12% of 100 + 8% of (100 - 12% of 100)

Discount given by X =  $12 + 8 \times (100 - 12) / 100$

$$\Rightarrow 12 + 8 \times 88/100 = 12 + 7.04 = 19.04$$

Discount given by Y = 20% of 100 = 20

Difference between the overall discounts = Discount given by X - Discount given by Y = 19.04 - 20 = -0.96

Therefore, the difference between the overall discounts given by X and Y is 0.96

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61. Answer: c

**Explanation:**

The correct answer is 'Option 3.'

★ Key Points

- The phrase 'managed of escaping' in the original sentence is **incorrect**.
- The correct usage is 'managed to escape from'.
- The reason for this is that the verb 'managed' commonly follows the pattern: **managed to + verb**. This indicates successful or surviving action despite difficulty.
- Moreover, 'escape from' is a common collocation which indicates getting free or getting away from a place or situation.

Therefore, the **correct sentence** is: 'How she *managed to escape from* the situation was inexplicable.'

★ Additional Information

- **Option 1** ('managed to escape of') and **option 2** ('managed to escape on') are grammatically incorrect as the prepositions 'of' and 'on' do not collocate with the verb 'escape'.
- **Option 4** ('managing of escape') is both grammatically incorrect and awkward.

62. Answer: a

**Explanation:**

The correct answer is 'Option 1'.

★ Key Points

- The term "**wild goose chase**" is an idiom in English that means to engage in a fruitless or pointless pursuit.(बेतुकी खोज)
- This idiomatic expression has its roots in a type of horse race that used to be popular in the 16th century, called a "wild goose chase", in which the lead rider pursues a zigzag course similar to the flight of geese, with the other riders trying to follow in exactly the same path.
  - **For example:** "Searching for a needle in a haystack is like a wild goose chase".
- Likewise, "to do something pointless", which is the first option, also indicates carrying out an activity or endeavour that has no purpose or potential for success.(बेमानी करना)

Therefore, the **correct answer** is: '**To do something pointless**'.

#### ★ Additional Information

- Option 2: "**To hunt wild animals**" ("जंगली जानवरों का शिकार करना") is incorrect, as it denotes an activity that, while potentially difficult, is not necessarily pointless.
- Option 3: "**Going on a world tour**" ("दुनिया भर की सैर करना") is also not appropriate. A world tour can have a lot of purposes like exploration, relaxation etc., and hence is not pointless as the idiom "wild goose chase".
- Option 4: "**Competing fiercely**" ("प्रतिस्पर्धा करना") is usually done with a specific goal in mind, such as winning a prize or gaining recognition, again it does not align with the meaning of "wild goose chase"

### 63. Answer: a

#### Explanation:

The correct answer is '**Option 1**.' i.e. '**Rays**'.

#### ★ Key Points

- The term following '**the sun**' in the sentence is expected to be a noun and related to the sun and the context of the sentence.

- The most suitable word to fill in the blank is '**rays**'. So, the completed sentence reads: "As he opened the window, the sun rays directly fell on his face."
- This sentence now indicates that the beams or shafts of sunlight (rays) coming from the sun directly fell on his face.

Therefore, the correct sentence is: '*As he opened the window the sun **rays** directly fell on his face.*'

### ★ Additional Information

- Option 2 ('**raze**') means completely destroy a building, town, or other site, which does not fit the context.
- Option 3 ('**race**'), is an action verb that indicates speed and acceleration, but it does not make sense when related to the sun in this context.
- Option 4 ('**raise**') means to lift up or elevate something, but it isn't suitable in this context.

64. Answer: b

### Explanation:

The correct answer is '**Option 2**' i.e. '**Fortunate**'.

### ★ Key Points

- '**Auspicious**' is a word in English that means conducive to success; favorable.
- It is often used when referring to something that is believed to portend well for the future and is associated with good luck or favorable conditions. (मंगलकारी)
  - **For example:-** an auspicious day would be a particularly good day for starting a new job or for getting married, based on astrological or other beliefs.
- The word '**Fortunate**' can be used as a synonym for 'auspicious'.
- '**Fortunate**' indicates being favored by or producing good luck. (भाग्यशाली)
  - **For example:** "He was fortunate to escape the accident unharmed".

Therefore, the **correct answer** is: '**Fortunate**'.

★ Additional Information

- Option 1: '**Antique**' ("प्राचीन") is not related to the concept of 'auspicious'. It refers to something old and of value because of its historical or artistic importance.
- Option 3: '**Illogical**' ("तर्कहीन") is also not correct. It signifies something that doesn't make sense or is not reasoned well, and does not align with the meaning of 'auspicious'.
- Option 4: '**Despairing**' ("निराश") signifies a feeling of complete loss of hope. This is a decidedly negative term and is not a synonym of 'auspicious'.

65. Answer: a

Explanation:

The correct answer is 'Option 1' i.e. '**Spend a lot of money**'.

★ Key Points

- In this context, "**push the boat out**" is an idiom which means to spend a lot of money to celebrate or to treat someone. (खुशियां मनाने में ढेर सारे पैसे खर्च करना)
  - **For example:** "They really pushed the boat out for their son's wedding, hiring the fanciest venue and the best catering."
- On the other hand, "**spend a lot of money**" (Option 1) also indicates using a significant amount of money for making a purchase or expenditure. (बहुत पैसे खर्च करना)
  - **For example:** "She decided to spend a lot of money on her first luxury car."

Therefore, the **correct answer** is: '**Spend a lot of money**'.

★ Additional Information

- Option 2: "**spend less money**" ("कम पैसे खर्च करना") is incorrect as it contradicts the meaning of the idiom "push the boat out".
- Option 3: "**avoid risk**" ("जोखिम से बचना") is also not accurate because the idiom entails indulgence rather than avoidance of risk.



- Option 4: **"take it easy"** ("शांत हो जाना") is incorrect as it infers relaxation or a laid-back attitude, rather than an extravagant spending indicated by "push the boat out".

66. Answer: c

**Explanation:**

The correct answer is 'Option 3.' i.e. 'Watching'.

★ Key Points

- The most appropriate word to fill the blank is **'watching'**. So, the completed sentence reads: "They enjoyed watching the sun rise from the hills."
- The verb **'enjoyed'** is often followed by a gerund (-ing form of a verb used as a noun).
- Watching is the process of looking at something for a period. Here, 'watching the sun rise' refers to the observers appreciating the natural event.

Therefore, the **correct sentence** is: *'They enjoyed **watching** the sun rising from the hills.'*

★ Additional Information

- Options 1 (**'in seeing'**) and 2 (**'to visualise'**) are not typically used after 'enjoyed', which is why they are incorrect.
- Option 4 (**'blinking at'**) makes the sentence awkward and is not the appropriate phrase to use in this context.

67. Answer: d

**Explanation:**

The correct answer is 'Option 4' i.e. 'Counsel'.

### ★ Key Points

- **'Admonition'** is a word in English that signifies a gentle or friendly reproof, or an expression of warning or disapproval. (सलाह)
  - **For example:** A teacher's note to a student to limit excessive talking in class would be considered an 'admonition'.
- The word **'Counsel'** (which is Option 4) can be used as a synonym for 'admonition'.
- **'Counsel'** involves offering advice or guidance, usually as a solution or course of action. (परामर्श)
  - **For example:** "The doctor's counsel helped him understand the necessity of a balanced diet for maintaining good health".

Therefore, the **correct answer** is: **'Counsel'**.

### ★ Additional Information

- Option 1: **'Insult'** ("अपमान") denotes disrespectful or scornfully abusive remarks or actions. This is not a synonym of 'admonition'.
- Option 2: **'Prayer'** ("प्रार्थना") signifies a solemn request or thanksgiving to God or an object of worship. It differs from the meaning of 'admonition' and hence, is incorrect.
- Option 3: **'Council'** ("परिषद्") is a group of people who meet regularly to make decisions or give advice on a particular subject, typically one that they know a lot about or have a personal interest in. It's not a synonym for 'admonition'.

68. **Answer: c**

### **Explanation:**

The correct answer is **'Option 3.'**

### ★ Key Points

- The **most suitable** words to fill the blanks are **'buy' and 'by'**. So, the completed sentence reads: "I will buy a new purse from the shop on the by-pass road."

- 'Buy' is a verb that means to get something by paying money for it.
- 'By' in 'by-pass road' is an adjective that describes the type of road, one that is intended to avoid a built up area.

Therefore, the **correct sentence** is: *'I will buy a new purse from the shop on the bypass road.'*

★ Additional Information

- The other options represent improper use of homophones. 'Bye' generally refers to a short form of goodbye, while 'by' can be a preposition, an adverb or an adjective depending on the context. 'Buy' refers to the act of purchasing something.

69. Answer: d

**Explanation:**

The correct answer is 'Option 4' i.e. 'Understate'.

★ Key Points

- The word '**exaggerated**' refers to the action of making something seem larger, more important, better, or worse than it really is. (अतिशयोक्ति)
  - **For example:** "She tended to exaggerate the difficulties of her job to gain sympathy from others."
- The word '**understate**' (which is Option 4) is an antonym for 'exaggerated'.
- It means to describe or represent something as being smaller or less important or serious than it is in reality. (कम कहना)
  - **For example:** "The company understated the negative impacts on environment to avoid regulatory problems."

Therefore, the **correct answer** is: '**Understate**'.

★ Additional Information

- Option 1: '**Ignore**' ("नजरअंदाज करना") is incorrect, as ignoring does not present an opposing action to exaggeration.
- Option 2: '**Condemn**' ("निर्दोष ठहराना") refers to express complete disapproval of, and it doesn't fit in the opposite sense of 'exaggerate'.
- Option 3: '**Underwrite**' ("बीमा करना") suggests accepting financial risk, particularly in insurance, and is not an antonym of 'exaggerate'.

70. **Answer: b**

**Explanation:**

The correct answer is '**Option 2.**'

★ Key Points

- The segment '**what make him**' contains the error.
- **It should correctly be** 'what made him' or 'what makes him' depending on the context (past or present).
- The verbs '**make**' or '**makes**' always have 's' when used in third person singular present tense, and 'made' is the past tense of 'make'.
- Here, it is either the past or the present tense that is required to make the sentence grammatically correct, not the base form 'make'.

Therefore, the **correct answer** is: '**Option 2.**'

★ Additional Information

- The other segments do not contain any errors when read on their own or in the context of the sentence.

71. **Answer: b**

**Explanation:**

The correct answer is '**Option 2**' i.e. '**Amplify**'.

### ★ Key Points

- '**Curtail**' is a verb in English signifying to reduce in extent or quantity; to impose a restriction on.
- It calls for making something less by cutting it short or by restricting it. (कम करना)
  - **For example:** a company may need to curtail spending in response to a financial crisis.
- The word '**Amplify**' can be used as an antonym for 'curtail'.
- '**Amplify**' means to increase the volume, extent, or size of something. (बढ़ाना)
  - **For example:** "The charity event helped to amplify attention towards the ongoing humanitarian crisis."

Therefore, the **correct answer** is: '**Amplify**'.

### ★ Additional Information

- Option 1: '**Seize**' ("ज़ब्त करना") implies to take hold of something suddenly or forcibly. It does not provide a contrast to the term 'curtail'.
- Option 3: '**Restrict**' ("प्रतिबंध करना") actually holds a similar meaning to 'curtail', not an opposite one. Hence, it's incorrect.
- Option 4: '**Deviate**' ("भटकना") denotes diverging from an established course or usual behavior. It doesn't act as an antonym to 'curtail'.

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### 72. Answer: c

#### Explanation:

The correct answer is '**Option 3.**' i.e. '**Is imported.**'

### ★ Key Points

- The phrase '**are exchanged**' is incorrect in this context. Transportation fuel is not typically 'exchanged' but rather 'imported', 'produced', 'used', etc.
- So, the correct option is '**is imported.**' 80% of India's transportation fuel is imported.

- 'Fuel' is usually treated as a singular noun which is why 'is' and not 'are' has been used with 'imported'.

Therefore, the **correct answer** is: '*Over 80% of India's transportation fuel is imported.*'

★ Additional Information

- Option 1 ('is endangered') and Option 2 ('are vanished') are incorrect. 'Endangered' typically refers to a species at risk of extinction and 'vanished' refers to something that has disappeared completely.
- Option 4 ('have vanished') is grammatically incorrect and does not cohere with the overall meaning of the sentence.

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73. **Answer: a**

**Explanation:**

The correct answer is 'Option 1'.

★ Key Points

- The correct spelling of the word in question is '**catalogue**', which is a list or record of items. (सूची)
  - **For example:** "She browsed through the furniture catalogue before deciding what to buy."

Therefore, **the sentence** "I saw the catalogue of D Décor in Capital Mall yesterday." is spelled correctly.

★ Additional Information

- Option 2: 'cattalogue', Option 3: 'catologue' and Option 4: 'catalogoue', all these spelling variations are incorrect and don't match the correct spelling 'catalogue'.

#### 74. Answer: a

##### Explanation:

The correct answer is 'Option 1' i.e. '**Approximate**'.

##### ★ Key Points

- The correct spelling of the word in question is '**Approximate**', which refers to something that is close to the accurate figure, fact, or value in question. (लगभग)
  - **For example:** "The approximate time of arrival is 8 pm".

Therefore, '**Option 1**' is the correct answer, as it delivers the correct spelling '**Approximate**' for the misspelt word 'aproximate' in the sentence.

##### ★ Additional Information

- Option 2: 'Aproxemate', Option 3: 'Apprxoximate' and Option 4: 'Apprximate', all these variations are incorrectly spelled and do not match the correct spelling '**Approximate**'.

#### 75. Answer: c

##### Explanation:

The correct answer is '**Option 3**' i.e. '**Introverted**'.

##### ★ Key Points

- '**Outgoing**' is an adjective that describes a person as sociable and responsive to others. In Hindi, 'outgoing' translates to "मिलनसार" or "बहादुर".
  - **For example:** an outgoing person is often the life of a party as they can easily socialize with everyone.
- '**Introverted**' is an antonym for '**outgoing**'.

- **Introverted** individuals are typically more reserved and less prone to socializing, and more focused on internal thoughts and feelings.(अंतर्मुखी)
  - **For example:** "Despite being in a large group, he remained introverted and mostly kept to himself."

Therefore, the **correct answer** is: '**Introverted**'.

★ Additional Information

- Option 1: '**Extravagant**' ("अतिप्रचुर") suggests someone who spends a lot more than necessary, or something that is excessive or elaborate; it doesn't oppose the term 'outgoing'.
- Option 2: '**Eccentric**' ("सनकी") implies unconventional and slightly strange behavior. This does not necessarily mean the person isn't outgoing.
- Option 4: '**Rational**' ("तर्कसंगत") indicates being based on clear thought or reason, and it doesn't directly contrast the term 'outgoing'.

76. Answer: c

**Explanation:**

The correct answer is 'Option 3: **than**.'

★ Key Points

- The correct usage in this context is '**no more than twenty-one**'.
- This **phrase indicates** that Miss Caroline's age does not exceed twenty-one, which is why 'than' is the appropriate word to use.
- The word '**than**' acts here as a conjunction used in expressions involving comparisons.

Therefore, the correct sentence is: '*Miss Caroline was no more **than** twenty-one. She had bright auburn hair, pink (2) \_\_\_\_\_, and wore crimson finger-nail polish. She also (3) \_\_\_\_\_ high-heeled pumps and a red-and-white (4) \_\_\_\_\_ dress. She looked and smelled (5) \_\_\_\_\_ a peppermint drop.*'

★ Additional Information



- Option 1 ('then') is often used to represent a point in time or the next step in a process, and does not fit the context of the sentence.
- Option 2 ('but') is used to introduce something contrasting with what has already been mentioned and doesn't make sense in this context.
- Option 4 ('the') is an article and cannot be used for comparisons, and hence, does not fit in the sentence.

77. Answer: c

Explanation:

The correct answer is 'Option 3: cheeks.'

★ Key Points

- The **context of the sentence** suggests that the blank should be filled with a body part that can be described as 'pink', which is generally associated with health and vitality.
- '**Cheeks**' is the most fitting choice because it is common to describe cheeks as having a pink color when referring to someone's appearance.

Therefore, the **correct sentence is**: "Miss Caroline was no more **than** twenty-one. She had bright auburn hair, pink **cheeks**, and wore crimson finger-nail polish. She also (3) \_\_\_\_\_ high-heeled pumps and a red-and-white (4) \_\_\_\_\_ dress. She looked and smelled (5) \_\_\_\_\_ a peppermint drop.'

★ Additional Information

- Although options like 'ears' (Option 1), 'eyes' (Option 2), and 'eyebrow' (Option 4) are all body features, they are not typically described as 'pink,' making them less appropriate choices for this sentence.

78. Answer: a

## Explanation:

The correct answer is 'Option 1: wore.'

### ★ Key Points

- Noticing the context, the **blank should be filled** with a verb that indicates the past action of adorning oneself with certain articles of clothing or accessories.
- '**Wore**' is the most fitting choice in this context because it is the past tense of 'wear', indicating that Miss Caroline had put on or was dressed in high-heeled pumps.

Therefore, the **correct sentence** is: "Miss Caroline was no more **than** twenty-one. She had bright auburn hair, pink **cheeks**, and wore crimson finger-nail polish. She also **wore** high-heeled pumps and a red-and-white (4) \_\_\_\_\_ dress. She looked and smelled (5) \_\_\_\_\_ a peppermint drop."

### ★ Additional Information

- '**Worn**' (Option 2) is the past participle form of 'wear', generally used in perfect tenses or as an adjective but does not correctly constitute verb tense required in this context.
- '**Wearing**' (Option 3) is the present participle of 'wear', typically used in present continuous tenses or as an adjective, and hence does not match the past narrative form here.
- '**Put**' (Option 4) while can be used to describe the action of dressing (as in 'put on'), it does not fit grammatically into the sentence as provided.

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## 79. Answer: a

## Explanation:

The correct answer is 'Option 1: striped.'

### ★ Key Points

- The **path of the sentence implies** that the blank should be filled with a word that describes the appearance or style of the dress.
- **'Striped'** is the most fitting choice as it specifies a design of parallel lines contrasting in color (i.e., red and white lines), a common description for clothing.

Therefore, the correct sentence is : "Miss Caroline was no more **than** twenty-one. She had bright auburn hair, pink **cheeks**, and wore crimson finger-nail polish. She also **wore** high-heeled pumps and a red-and-white **striped** dress. She looked and smelled (5) \_\_\_\_\_ a peppermint drop."

### ★ Additional Information

- **'Stripped'** (Option 2) refers to being devoid or lacking something, which does not make sense in this context of describing a dress.
- **'Stepped'** (Option 3) denotes the action of moving by lifting and setting down each foot in turn, and does not suitably describe a dress.
- **'Stapled'** (Option 4) means secured with a metal staple, which is usually not used to describe the style or design of a dress.

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80. Answer: c

### Explanation:

The correct answer is **'Option 3: like.'**

### ★ Key Points

- The **context of the sentence** suggests that the blank should be filled with a word that introduces a comparison or a similarity.
- **'Like'** is the most fitting choice in this context because it is used to draw comparisons or demonstrate similarities.

Therefore, the **correct sentence** is: "Miss Caroline was no more **than** twenty-one. She had bright auburn hair, pink **cheeks**, and wore crimson finger-nail polish. She

also **wore** high-heeled pumps and a red-and-white **striped** dress. She looked and smelled **like** a peppermint drop."

★ Additional Information

- '**Liked**' (Option 1) is the past tense of 'like', indicating enjoyment or approval, which does not fit the context of the sentence.
- '**As**' (Option 2) can be used for comparisons, but usually when followed by a clause. Without an accompanying verb, 'as' does not fit the context here.
- '**As if**' (Option 4) is used to describe something appearing in a particular way, but it is typically followed by a clause. Without a verb following it, 'as if' is not appropriate here.

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