



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



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UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC CHSL 2017 (Tier-I) Previous Year Paper (22-Mar-2018) (Shift 3)

Total Time: 1 Hour

Total Marks: 200

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	English Language	25	50	0.5	2
2	General Intelligence	25	50	0.5	2
3	Quantitative Aptitude	25	50	0.5	2
4	General Awareness	25	50	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.

English Language

1. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word. (+2, -0.5)

- a. Constituet
- b. Iliterate
- c. Conctituet
- d. Constitute

2. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. (+2, -0.5)

The smoke rises and

A- chokes my apartment

B- gets trapped in the

C- tree-tops and

- a. BAC
- b. ACB
- c. BCA
- d. ABC

3. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select 'no improvement'. (+2, -0.5)

You (will being surprised) to learn that some leading philosophers have supported immoral views.

- a. will be surprised
- b. will be surprise
- c. will be surprising
- d. no improvement

-
4. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select 'no improvement'. (+2, -0.5)

I (had been) a unique case of slow learning.

- a. has been
- b. am been
- c. had being
- d. no improvement

-
5. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence. (+2, -0.5)

A person or thing that is a perfect example of a particular quality or type

- a. Epitome
- b. Abase
- c. Libertine

d. Profligate

6. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence. (+2, -0.5)

Relating to or involved in crime

- a. Chaste
 - b. Impeccant
 - c. Licit
 - d. Felonious
-

7. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. (+2, -0.5)

Under the weather

- a. Become a bit unpredictable like the weather.
 - b. Slightly unwell or in low spirits.
 - c. Feel optimistic simply because the weather is good.
 - d. Feel depressed because you expect bad weather.
-

8. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. (+2, -0.5)

Come to terms with something

- a. To become friends with your opponents.

- b. Accept that you are a loser even though you have potential.
- c. Become unnecessarily depressed.
- d. To gradually accept a sad situation.

9. In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+2, -0.5)

People are now either exposed to the very best of their inner circle and the world, _____ to the worst — articles that look to shock, to provoke rage and put a lens on everything that is wrong _____ the world. Imperceptibly, it goes unsaid that often _____ pieces of 'news' fail to actually provide a constructive solution. The effect of such a disparity _____ to the same effect as news of TV and newspapers — a feeling that what we see does not _____ our lives.

we see does not _____ our lives.

- a. reflects
- b. reflective
- c. reflection
- d. reflect

10. In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+2, -0.5)

People are now either exposed to the very best of their inner circle and the world, _____ to the worst — articles that look to shock, to provoke rage and put a lens on everything that is wrong _____ the world.

Imperceptibly, it goes unsaid that often _____ pieces of 'news' fail to actually provide a constructive solution. The effect of such a disparity _____ to the same effect as news of TV and newspapers — a feeling that what we see does not _____ our lives.

such a disparity _____ to the same effect

- a. leads
- b. led
- c. leading
- d. leaded

11. In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+2, -0.5)

People are now either exposed to the very best of their inner circle and the world, _____ to the worst — articles that look to shock, to provoke rage and put a lens on everything that is wrong _____ the world.

Imperceptibly, it goes unsaid that often _____ pieces of 'news' fail to actually provide a constructive solution. The effect of such a disparity _____ to the same effect as news of TV and newspapers — a feeling that what we see does not _____ our lives.

unsaid that often _____ pieces of 'news'

- a. this
- b. that
- c. the
- d. these

12. In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+2, -0.5)

People are now either exposed to the very best of their inner circle and the world, _____ to the worst – articles that look to shock, to provoke rage and put a lens on everything that is wrong _____ the world. Imperceptibly, it goes unsaid that often _____ pieces of 'news' fail to actually provide a constructive solution. The effect of such a disparity _____ to the same effect as news of TV and newspapers – a feeling that what we see does not _____ our lives.

that is wrong _____ the world.

- a. at
- b. to
- c. with
- d. into

13. In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+2, -0.5)

People are now either exposed to the very best of their inner circle and the world, _____ to the worst – articles that look to shock, to provoke rage and put a lens on everything that is wrong _____ the world. Imperceptibly, it goes unsaid that often _____ pieces of 'news' fail to actually provide a constructive solution. The effect of such a disparity _____ to the same effect as news of TV and newspapers – a feeling that what we see does not _____ our lives.

and the world, _____ to the worst

- a. nor
- b. or
- c. and
- d. but

14. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word. (+2, -0.5)

- a. Maintenance
- b. Maintainence
- c. Maintanance
- d. Mainteinance

15. A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech. (+2, -0.5)

The Queen was deeply affected, and said to the old woman, "What can I do for you?"

- a. The Queen asked the old woman if she could do something for her.
- b. The Queen was deeply affected and asked the old woman what she could do for her.
- c. The Queen was deeply affected so she asked the old woman what her majesty could do for her.
- d. The Queen asked the old woman if she could help her as she was deeply affected.

16. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice. (+2, -0.5)

She handed him a bag.

- a. A bag was hand to him.
- b. A bag is handed by her.
- c. A bag handed to him by her.
- d. A bag was handed to him by her.

17. Rearrange the parts of the sentence in the correct order. (+2, -0.5)

The orbital motion

P: of the earth

Q: uncertain rates

R: can have

- a. QPR
- b. QRP
- c. RQP
- d. PRQ

18. In the following question, out of the given four alternatives, select the one which is opposite in the meaning of the given word. (+2, -0.5)

Cozen

- a. Cheat
 - b. Catch
 - c. Burn
 - d. Honest
-

19. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word. (+2, -0.5)

Secede

- a. Quit
 - b. Resign
 - c. Withdraw
 - d. Unite
-

20. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word. (+2, -0.5)

Jubilant

- a. Happy
 - b. Aggressive
 - c. Ancient
 - d. Defeat
-

21. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word. (+2, -0.5)

Reprove

- a. Praise
- b. Laud
- c. Scold
- d. Commend

22. In the following question, the sentence is given with blanks to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option. (+2, -0.5)

We can never compare the importance _____ money with the importance of love.

- a. for
- b. with
- c. of
- d. about

23. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option. (+2, -0.5)

Sapna _____ with all of the chocolates.

- a. have ran

- b. has been running
- c. has run off
- d. was run off

24. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'. (+2, -0.5)

Experts have predict that (A)/ within ten years ethanol will emerge (B)/ as the primary automatic fuel in the world. (C)/ No error (D)

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

25. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'. (+2, -0.5)

She has a (1)/ kind eyes (2)/ with a beautiful face. (3)/ No error (4)

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

General Intelligence

26. In the following question, select the related word pair from the given alternatives. (+2, -0.5)

River : Krishna :: ? : ?

- a. Planet : Sun
- b. Mountain : K2
- c. Moon : Satellite
- d. Earth : Grass

-
27. In the following question, select the related letter pair from the given alternatives. (+2, -0.5)

APX : BQY :: ? : ?

- a. JRA : KTB
- b. JLM : KMP
- c. CSN : DTO
- d. AXP : BZR

-
28. In the following question, select the odd word pair from the given alternatives. (+2, -0.5)

- a. Badminton net – Badminton
- b. Gloves – Boxing

c. Chessboard - Chess

d. Cricket Ball - Cricket

29. In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the (+2, -0.5)

a. 13 - 14

b. 15 - 16

c. 24 - 25

d. 19 - 21

30. In the following question, select the odd letter/letters from the given alternatives. (+2, -0.5)

a. GMS

b. KQW

c. JPV

d. NTY

31. Arrange the given words in the sequence in which they occur in the dictionary. (+2, -0.5)

1. Throttle

2. Tight

3. Time

4. Tier

5. Thrust

a. 12435

b. 54123

c. 15423

d. 25413

32. In the following question, select the missing number from the given series. (+2, -0.5)

964, ?, 241, 120.5, 60.25

a. 482

b. 384

c. 396

d. 424

33. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. (+2, -0.5)

D, I, N, S, ?

a. Z

b. V

c. W

d. X

-
34. Ganga leaves from her college at 10:00 a.m. She starts walking towards north and covers a distance of 14 km. She turns right and walks 20 km to reach point K. She turns left and walk 16 km. She again turns left and walks 10 km. How far (in km) and in which direction is she now from point K? (+2, -0.5)

- a. $3\sqrt{33}$, North-West
- b. $2\sqrt{89}$, North-West
- c. $3\sqrt{33}$, North-East
- d. $2\sqrt{89}$, North-East

-
35. From the given alternatives, select the word which **CANNOT** be formed using the letters of the given word. (+2, -0.5)

Countermand

- a. Dam
- b. Term
- c. Rout
- d. Main

-
36. In a certain code language, "NOTES" is written as "141520519" and "MAKAR" is written as "13111118". How is "LOFTS" written in that code language? (+2, -0.5)

- a. 206191316
- b. 121562019

c. 12150219

d. 1515121119

-
37. In a certain code language, 'x' represents '+', '÷' represents 'x', '-' represents '÷' and '+' represents '-'. Find out the answer to the following question. (+2, -0.5)

$$18 \times 12 \div 5 - 10 + 10 = ?$$

a. 14

b. 6

c. 39

d. 2

-
38. The following equation is incorrect. Which two signs should be interchanged to correct the equation? (+2, -0.5)

$$10 + 14 \times 20 - 7 \div 10 = 40$$

a. + and x

b. + and ÷

c. ÷ and -

d. and +

-
39. If $12@18 = -3$, $18@6 = 6$ and $16@8 = 4$, then find the value of $6@10 = ?$ (+2, -0.5)

a. -10

- b. 8
 - c. 4
 - d. -2
-

40. Which of the following terms follows the trend of the given series? (+2, -0.5)

XYXYXYZZ, XYXYXZZY, XYXYZZXY, XYXZZYXY, XYZZXYXY, _____.

- a. XZZYXYXY
 - b. ZZXYXYXY
 - c. XYXYXYZZ
 - d. XYXYXZZY
-

41. Two lady cyclists A and B start from the same point. A cycles 3.5 km West, then turns to her right and cycles 7 km. B cycles 1 km East, then turns North and cycles 7 km, then turns to her left and cycles 2 km. Where is B with respect to A now? (+2, -0.5)

- a. 5.5 km, East
 - b. 2.5 km, West
 - c. 2.5 km, East
 - d. 5.5 km, West
-

42. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to (+2, -0.5)

be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: All napkins are towels

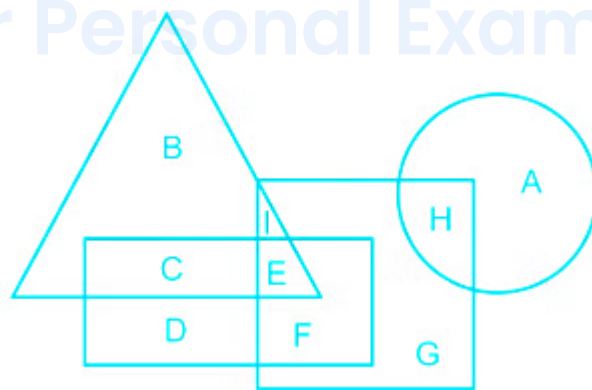
Statement II: All rags are napkins

Conclusion I: Some towels are rags

Conclusion II: All rags are towels

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

43. In the following figure, rectangle represents Pharmacists, circle represents Lyricists, triangle represents Cooks and square represents Fathers. Which set of letters represents Pharmacists who are either Fathers or Cooks? (+2, -0.5)



- a. EFG
- b. E
- c. IEF

d. CEF

44. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. (+2, -0.5)

DEW, ZAS, VWO, RSK, ?

- a. MPH
 - b. NOG
 - c. LME
 - d. PQI
-

45. In the following question, select the missing number from the given series. (+2, -0.5)
- 1, 3, 5, 7, ?

- a. 9
 - b. 13
 - c. 10
 - d. 12
-

46. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (+2, -0.5)

- a. (31, 34, 37)
- b. (43, 45, 48)

c. (39, 42, 45)

d. (7, 10, 13)

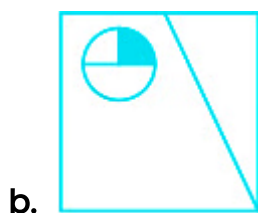
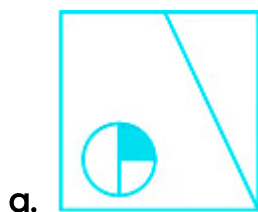
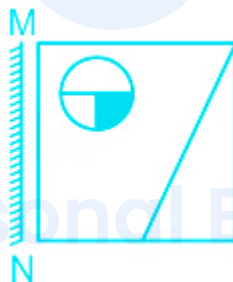
47. Which type of institution is the Finance Commission?

(+2, -0.5)

- a. Statutory institution
- b. Constitutional institution
- c. Non-constitutional institution
- d. Non Statutory institution

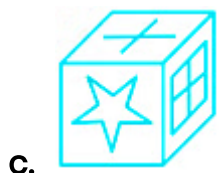
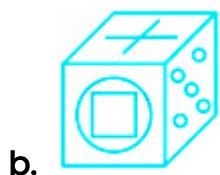
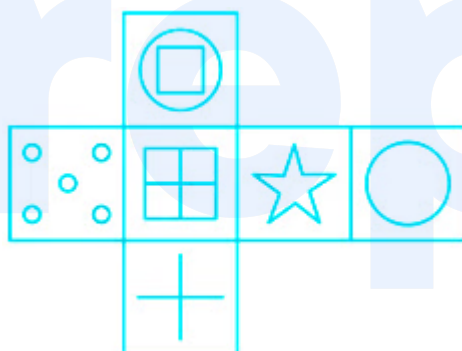
48. If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given figure?

(+2, -0.5)





49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure? (+2, -0.5)





d.

50. A word is represented by only set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'A' can be represented by 31, 43 etc and 'U' can be represented by 85, 96 etc. Similarly, you have to identify the set for the word 'SINE'

Matrix-I						Matrix-II					
	0	1	2	3	4		5	6	7	8	9
0	A	I	L	L	K	5	S	O	T	R	Z
1	I	F	B	A	F	6	R	S	Q	N	Q
2	M	F	H	E	D	7	P	S	U	V	Y
3	B	A	L	G	F	8	U	Z	X	O	N
4	D	G	C	A	K	9	Q	U	Y	W	P

- a. 21, 99, 31, 85
- b. 12, 87, 11, 78
- c. 31, 65, 14, 76
- d. 76, 10, 68, 23

Prepp

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Quantitative Aptitude

51. Find the square root of 1471369. (+2, -0.5)

- a. 1213
 - b. 1223
 - c. 1203
 - d. 1233
-

52. Calculate the total numbers of prime factors in the expression $(9)^{11} \times (5)^{7} \times (7)^{5} \times (3)^{2} \times (17)^{2}$ (+2, -0.5)

- a. 35
 - b. 36
 - c. 37
 - d. 38
-

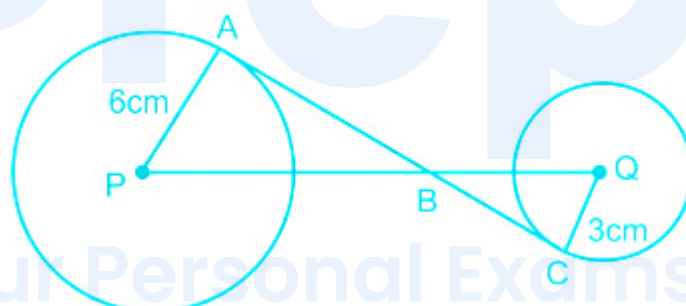
53. Find the y-intercept of the line joining two points (1, 3) and (3, 5). (+2, -0.5)

- a. -2
 - b. 0
 - c. 2
 - d. 4
-

54. The two equations are $4x + 4ky - 6 = 0$ and $x + 6y - 12 = 0$. Find the value of k for the pair of two linear equations represents the parallel lines. (+2, -0.5)

- a. 2
- b. 6
- c. 8
- d. 10

55. Two circles have radii 6 cm and 3 cm and are centered at the point P and Q, respectively. A transverse common tangent AC to both circles cuts the line joining P and Q at a point B such that $AB = 8$ cm. Find the length (in cm) of PQ. (+2, -0.5)



- a. 5
- b. 10
- c. 15
- d. 20

56. The circle of radius 4 cm and centre O has a tangent PR. If $\angle POR = 90^\circ$ and $OR = 7$ cm and $OP = 24$ cm. Calculate the length (in cm) of PR. (+2, -0.5)

- a. 20
- b. 24
- c. 25
- d. 35

57. In an election between two candidates, the winning candidate got 70% of the valid votes and won by a majority of 9000 votes. If out of total votes polled 90% votes are valid, then what is the total number of votes polled? (+2, -0.5)

- a. 30000
- b. 25000
- c. 22500
- d. 27000

58. If $(\frac{3}{2})X = (\frac{5}{7})Y = (\frac{6}{5})Z$, then what is $X : Y : Z$? (+2, -0.5)

- a. 105 : 50 : 84
- b. 24 : 25 : 32
- c. 15 : 21 : 25
- d. 20 : 42 : 25

59. 7 litres mixture of milk and water contains 30% water. 3.5 litres of milk is added to this mixture. What is the percentage of water in the new mixture? (+2, -0.5)

- a. 10
- b. 15
- c. 20
- d. 25

60. If the average of 31, x , 42, 39, 56, 78, 83 and 91 is 58.5, then what is the value of x ? (+2, -0.5)

- a. 26
- b. 35
- c. 58
- d. 48

61. The difference between simple interest on a certain sum at the rate of 6% per annum for 5 years and 6 years is 25.8. What is the sum (in Rs)? (+2, -0.5)

- a. 480
- b. 430
- c. 258
- d. 516

62. The ratio of the cost price and selling price of a shirt is 32 : 37. What is the profit percentage? (+2, -0.5)

- a. 15.63

b. 13.51

c. 17.21

d. 14.44

63. A shopkeeper offers the following 3 schemes. Which scheme has the lowest discount percentage (all articles have same marked price)? (+2, -0.5)

I. Two successive discounts of 10% and 10%

II. Buy 7 get 8

III. Buy 9 get 1 free

a. Only II

b. Only III

c. Only II and III

d. All are equal.

64. If $x = \frac{\sqrt{2}+1}{\sqrt{2}-1}$ and $y = \frac{\sqrt{2}-1}{\sqrt{2}+1}$, then what is the value of $x + y$? (+2, -0.5)

a. 6

b. $\sqrt{2}$

c. 3

d. $3\sqrt{2}$

65. X can complete $\frac{5}{7}$ part of a work in 10 days and Y can complete $\frac{3}{4}$ part of the same work in 9 days. In how many days will both complete $\frac{13}{21}$ (+2, -0.5)

part of the total work

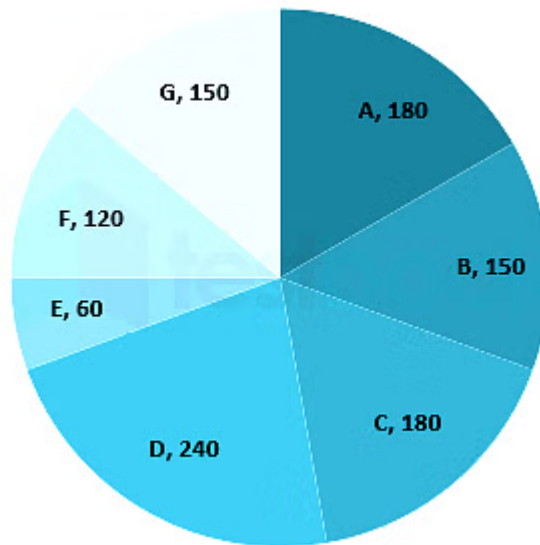
- a. 6
- b. 4
- c. 3
- d. 12

66. A train starts from a place A at 8 : 00 a.m. and arrives at another place B at 1 : 30 p.m. on the same day. If the speed of the train is 30 km/hr, then what will be the distance (in km) covered by the train? (+2, -0.5)

- a. 165
- b. 175
- c. 150
- d. 135

67. **Direction:** The HR department of a company prepared a report. The pie chart represents all the employees of the company and to which state they belong to. Study the diagram and answer the following questions. (+2, -0.5)

Number of employees



The least number of employees are from which state?

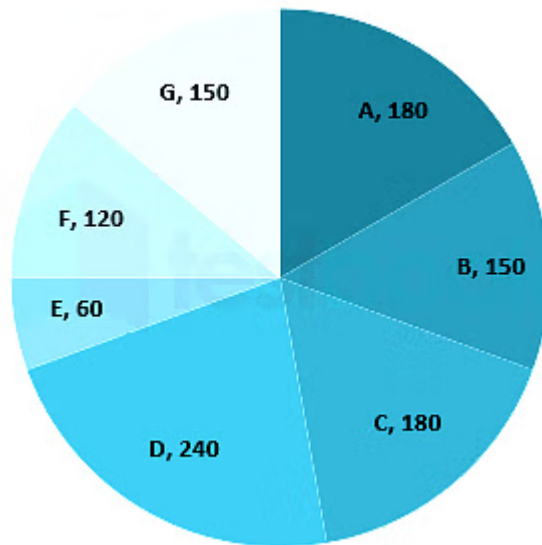
- a. F
- b. G
- c. A
- d. E

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68. Direction: The HR department of a company prepared a report. The pie chart represents all the employees of the company and to which state they belong to. Study the diagram and answer the following questions.

(+2, -0.5)

Number of employees



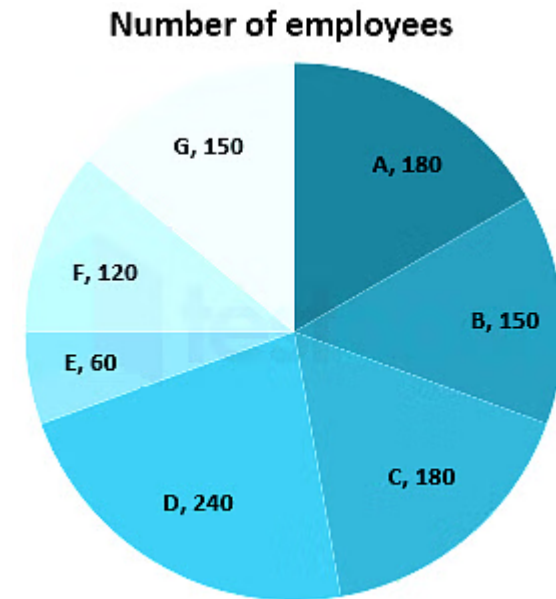
What is the total number of employees of the company?

- a. 1020
- b. 960
- c. 1080
- d. 920

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69. Direction: The HR department of a company prepared a report. The pie chart represents all the employees of the company and to which state they belong to. Study the diagram and answer the following questions.

(+2, -0.5)

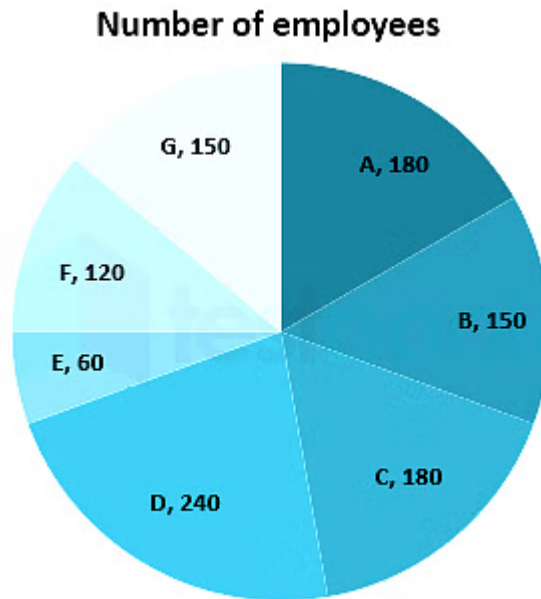


The measure of the central angle of the sector representing state B is _____ degrees.

- a. 80
- b. 60
- c. 75
- d. 50

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70. **Direction:** The HR department of a company prepared a report. The pie chart represents all the employees of the company and to which state they belong to. Study the diagram and answer the following questions. (+2, -0.5)



If the average monthly salary of the employees of C company is Rs 25,000 then what is the total of the salaries (in Rs lakhs) paid to all the employees of this company?

- a. 27
- b. 45
- c. 36
- d. 360

71. The side of an equilateral triangle is 10 cm. Find its area (in cm^2). (+2, -0.5)

- a. $25\sqrt{3}$
- b. $36\sqrt{3}$
- c. $25\sqrt{2}$
- d. $36\sqrt{2}$

72. If the measure of the interior angle of a regular polygon is 108° then how many sides does it have? (+2, -0.5)

- a. 6
- b. 8
- c. 9
- d. 5

73. The curved surface area and the diameter of a right circular cylinder are 660 cm^2 and 21 cm respectively. Find its height (in cm). (+2, -0.5)

- a. 9
- b. 10
- c. 12
- d. 8

74. What is the value of $(1/\sqrt{3} + \cos 60^\circ)$? (+2, -0.5)

- a. $(2 + 2\sqrt{3})/\sqrt{3}$
- b. $(2 + \sqrt{3})/2\sqrt{3}$
- c. $7/3$
- d. $(\sqrt{2} + 1)/\sqrt{2}$

75. ΔABC is right angled at B. If $\cos A = 8/17$, then what is the value of $\cot C$? (+2, -0.5)

- a. $15/8$
- b. $15/17$
- c. $8/17$
- d. $17/15$

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General Awareness

76. An increase in money supply will cause interest rates to _____. (+2, -0.5)

- a. Rise.
- b. Fall
- c. Remain unchanged.
- d. No option is correct.

77. For which one of the following items Tiruppur is well known as a huge exporter to many parts of the world? (+2, -0.5)

- a. Gems and Jewellery
- b. Leather Goods
- c. Knitted garments
- d. Handicrafts

78. What is measured with the Nephometer? (+2, -0.5)

- a. Volume of rainfall
- b. Cloud volume and speed
- c. Salinity of Sea
- d. All options are correct.

79. The 'Loktak Lake' is located in which of the following states of India? (+2, -0.5)

- a. Meghalaya
 - b. Manipur
 - c. Mizoram
 - d. Tripura
-

80. During whose reign did Timur invaded India? (+2, -0.5)

- a. Allauddin Khilji
 - b. Bahlol Lodi
 - c. Firoz Tughlaq
 - d. Nasiruddin Mahmud Shah
-

81. Which of the following movements was headed by Sitaram Raju? (+2, -0.5)

- a. Kuka Movement
 - b. Rampa Movement
 - c. Pabna Agitation
 - d. Bardoli Satyagraha
-

82. In which city is India's oldest European church? (+2, -0.5)

- a. Kochi
- b. Goa

- c. Chennai
 - d. Kolkata
-

83. Which country has started the world's first carbon capture plant in October 2017? (+2, -0.5)

- a. China
 - b. Italy
 - c. Japan
 - d. Iceland
-

84. Which of the following is the recipient of V Shantaram Lifetime Achievement Award at the Mumbai International Film Festival (MIFF) in 2018? (+2, -0.5)

- a. Dharmendra
 - b. Mahesh Bhatt
 - c. Shyam Benegal
 - d. Gulzar
-

85. The national temple of Bangladesh is _____. (+2, -0.5)

- a. Jagannath Temple, Pabna
- b. Boro Kali Bari Temple, Mymensingh
- c. Dhakeshwari Temple, Dhaka

d. Sugandha Shaktipeeth, Barisal

86. Which of the following group is NOT Dobereiner triads? (+2, -0.5)

- a. Li, Na, K
 - b. N, P, Au
 - c. Cl, Br, I
 - d. Ca, Sr, Ba
-

87. Which of the following is a metal? (+2, -0.5)

- a. Sulphur
 - b. Nitrogen
 - c. Oxygen
 - d. No option is correct.
-

88. Which Schedule of Indian Constitution has provisions relating to disqualification of Member of Parliament on the ground of defection? (+2, -0.5)

- a. Seventh Schedule
 - b. Eighth Schedule
 - c. Ninth Schedule
 - d. Tenth Schedule
-

89. Election of the President of India and its manner can be amended by ----- (+2, -0.5)

- a. Simple Majority of Parliament
- b. Special Majority of Parliament
- c. Special Majority of Parliament and consent of States
- d. No option is correct.

90. Yeast and mushrooms are the organisms of which kingdom? (+2, -0.5)

- a. Fungi
- b. Monera
- c. Plantae
- d. Protista

91. In October 2017, which two ministries jointly launched 'SAATHI' (Sustainable and Accelerated Adoption of efficient Textile technologies to help small Industries) initiative? (+2, -0.5)

- a. Commerce and Textile Ministries
- b. Power and Textile ministries
- c. Finance and Textile ministries
- d. No option is correct.

92. What is the name of the event caused by the 3200 Phaethon asteroid around 15 December of every year? (+2, -0.5)

- a. Geminid Meteor display
- b. Perseid Meteor display
- c. Draconid Meteor display
- d. Lyrid Meteor display

93. On January 3, 2018, RBI initiated 'PCA' against the Allahabad Bank. How many public sector banks have been covered under 'PCA'? (+2, -0.5)

- a. 18
- b. 17
- c. 11
- d. 15

94. The Cabinet Committee on Economic Affairs (CCEA) has approved the expansion of "Beti Bachao Beti Padhao" yojana for a pan India coverage from 2017- 2018 to _____. (+2, -0.5)

- a. 2018-2019
- b. 2019-2020
- c. 2020-2021
- d. 2021-2022

95. On January 16, 2018, the Supreme Court ruled the attacks and interference on adults opting for inter-caste marriage as 'absolutely illegal' in the petition filed by which NGO in 2010? (+2, -0.5)

- a. PRATHAM
- b. Shakti Vahini
- c. Goonj
- d. Sammaan

96. Due to an acceleration of 1 m/s^2 the velocity of a body increases from 5 m/s to 10 m/s in a certain period. Find the displacement (in m) of the body in that period. (+2, -0.5)

- a. 125
- b. 37.5
- c. 62.5
- d. 75

97. As an object falls freely its_____ . (+2, -0.5)

- a. Kinetic energy gets converted into potential energy
- b. Potential energy gets converted into kinetic energy
- c. Momentum gets converted into gravitational force
- d. Gravitational force gets converted into momentum

98. Methane contributes towards global warming so it is called a _____ gas. (+2, -0.5)

- a. poisonous
- b. carcinogenic
- c. infectious
- d. greenhouse

99. Which of the statements given below are **correct** ? (+2, -0.5)

- A) In 2017 Pro Kabaddi League, Sandeep Narwal played for Bengaluru Bulls.
- B) In 2017, Dani Pedrosa raced in MotoGP for Honda.
- C) In 2017, Glenn Maxwell captained the IPL team Kolkata Knight Riders.

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

100. In Microsoft Excel , Ctrl+ down arrow key leads to _____ cell (+2, -0.5)
movement on spreadsheet.

- a. End of column
- b. End of row

- c. One cell Left
- d. One cell right

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Answers

1. Answer: d

Explanation:

The correct answer is- 'Constitute'

★ Key Points

- 'Constitute' is a 'verb' and it means 'to be one of the parts that form something.'
 - *Example: Women **constitute** a high proportion of part-time workers.*

Here, the correct spelling is- Constitute

2. Answer: c

Explanation:

The correct answer is- 'BCA'

★ Key Points

- In the started sentence 'The smoke rises and' it is ended with the verb 'rises' and the **conjunction** is using 'and' so that 'verb' will come but in the sentence, C- 'tree-tops and' is not started with the verb so it can be easily eliminated here.
- And B part 'gets trapped in the' is suitable according to the **context** of the paragraph.
- The paragraph does not end with an article 'the' or conjunction 'and' . So, options 1, 2 & 4 are eliminated.

*Thus, **option 3** is the correct answer.*

3. Answer: a

Explanation:

The correct answer is- '**will be surprised**'

★ Key Points

- Using '**will be surprised**' in place of '**will being surprised**' to make the sentence correct.
- We know that '**will**' is a **helping verb** that takes the **first form** of the **verb(V₁)** after it.
- '**Be**' is the **base form** of the verb and when the verb '**be**' is used it is followed by **V₃**

*The correct sentence is- You will **be surprised** to learn that some leading philosophers have supported immoral views.*

4. Answer: d

Explanation:

The correct answer is- '**No improvement**'

★ Key Points

- There is **no improvement** is required in the given sentence in the question.
- In the first option, we know that '**has**' never be used with '**I**', we use '**have**' with it.
- In the second option, '**am**' is a helping verb of **continuous tense** so that need to put **V₁ +ing** after it.
- In the third option, '**had**' is a helping verb of the **perfect tense** so that need to put **V₃** after it.
- Clearly, we can say there is no need for improvement in this sentence.

*The correct sentence is- I **had been** a unique case of slow learning.*

5. Answer: a

Explanation:

The correct answer is- 'Epitome'

★ Key Points

- 'Epitome' is a **noun** and it means 'a perfect example of something.'
 - Example:* Her clothes are the **epitome** of good taste.

Hence the **option 1** is the **most appropriate** answer here.

WORDS	MEANING
Abase (verb)	behave in a way that belittles or degrades someone.
Libertine (noun)	a person, especially a man, who freely involves in sensual pleasures without regard to moral principles.
Profligate (adjective)	recklessly extravagant or wasteful in the use of resources.

6. Answer: d

Explanation:

The correct answer is- 'Felonious'

★ Key Points

- 'Felonious' is an **adjective** and it means 'relating to or involved in crime.'
 - Example :* They turned their **felonious** talents to the smuggling trade

Hence **option 4** is the **most appropriate** answer here.

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WORDS	MEANING
Chaste (<i>adjective</i>)	<i>abstaining/refraining from extramarital, or from all, sexual intercourse; virgin; unmarried.</i>
Impeccant (<i>adjective</i>)	<i>free from error or fault; sinless.</i>
Licit (<i>adjective</i>)	<i>not forbidden; lawful.</i>

7. Answer: b

Explanation:

The correct answer is- 'Slightly unwell or in low spirits.'

★ Key Points

- 'Under the weather' is an **idiom** and it means 'If someone is or feels under the weather, they feel ill.'
 - **Example:** *She was sufficiently **under the weather** to have to pull out of the competition.*

Hence **option 2** is the **most appropriate** answer here.

8. Answer: d

Explanation:

The correct answer is- 'To gradually accept a sad situation.'

★ Key Points

- 'Come to terms with something' is an **idiom** and it means 'to learn to understand and accept something.'
 - **Example :** *He made little effort to **come to terms with his critics** .*

Hence *option 4* is the *most appropriate* answer here.

9. Answer: d

Explanation:

The correct answer is- 'reflect'

★ Key Points

- Here, verbs should be used, and **do/does** takes Verb in **verb 1st form**.

Hence, *reflect* is the *most appropriate* answer.

10. Answer: a

Explanation:

The correct answer is- 'leads'

★ Key Points

- 'disparity' is a singular noun and it means 'a great difference'. So, according to subject-verb agreement, a **singular verb** should come with a **singular subject**.

Thus, *leads* is the *most appropriate* answer here.

★ Additional Information

- We don't use 'led' because the passage is in the **present** tense.
-

11. Answer: d

Explanation:

The correct answer is- '**these**'

★ Key Points

- Here, the correct determiner is to be used. '**Pieces of news**' is a **plural** noun, hence plural determiner '**these**' should be used.

Thus, **option 4** is the **most appropriate** here.

★ Additional Information

- We **do not** use the article '**the**' here because already subject **news** is defined earlier in the passage, so we need to point this further.

12. Answer: c

Explanation:

The correct answer is- '**with**'

★ Key Points

- The context explains that news articles are creating violence and they do not show the reality which is wrong with the people around the world.
- Let's find out the uses of the following prepositions:-
 - **At**-to show age, exact time, temporary mood.
 - **To**-for the destination.
 - **With**-in relation to.
 - **Into**-when there is a change in form or motion.
- Clearly, the preposition '**with**' gives an **appropriate meaning**.

Thus, **option 3** is the **most appropriate** answer here.

13. Answer: b

Explanation:

The correct answer is- 'or'

★ Key Points

- On looking at the **above-given** passage, we observe that it is based on how **articles** or **news** are shown to create violence in society and does not show what is actually going on around the world.
- The first blank is related to the paired conjunction (*either.....or*). Since 'either' is already given, thus it should be followed by 'or'.

Thus, *option 2* is the correct answer.

14. Answer: a

Explanation:

The correct answer is- 'Maintenance'

★ Key Points

- 'Maintenance' is a **noun** and it means 'keeping something in good condition.'
 - *Example: This house needs a lot of maintenance.*

Here, the correct spelling is- Maintenance

★ Additional Information

- The **synonyms** of **Maintenance** are- 'fix, reparation, upkeep, service'.
- The **antonyms** of **Maintenance** are- 'unchain, unwire, unstable, unpin'.

15. Answer: b

Explanation:

The correct answer is- 'The Queen was deeply affected and asked the old woman what she could do for her.'

★ Key Points

- In the question, **direct speech** is given and we need to change into **indirect speech**. Since a question is asked in **inverted commas** that too is in the present form of the **modal verb**.
- So, change '**can**' into a **past form** that is '**could**'.
- When a question is represented with **wh-word**, so conjunction '**if/whether**' is not used.

Hence, *option 2 is the most appropriate answer here.*

★ Additional Information

- Word '**majesty**' is not given in **direct speech**. So, there is no need of adding it in **indirect speech**.

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16. Answer: d

Explanation:

The correct answer is- 'A bag was handed to him by her.'

★ Key Points

- In the given question the sentence '**She handed him a bag.**' is in '**Active voice**' which is in the **past indefinite** and we know that after **converted** this sentence into '**Passive voice**' the tense will same which also should in **past indefinite**.
- **Past indefinite:**

- Sub + V2 + object (**Active**)
- Object + was/were + V3 + by + subject (**Passive**)
- **Example:**
 - Reema **cleaned** the floor (**Active**)
 - The floor **was cleaned** by Reema (**Passive**)

Hence the correct answer is- A bag was handed to him by her.

17. Answer: d

Explanation:

The correct answer is- 'PRQ'

★ Key Points

- Clearly, In the started sentence 'The orbital motion' ends with a **noun** , and 'Q' starts with the **noun too** so the answer **can't be started** from ' Q' .
- So that, **options 1 & 2** are **eliminated** and **option 3** shows that there are uncertain rates of earth, but the rate of something is related to some object/person activity, not to itself. Hence, **option 3** is also **incorrect**.

*Thus, **option 4** is the correct sequence here.*

18. Answer: d

Explanation:

The correct answer is- 'Honest'

★ Key Points

- 'Cozen' is a **verb** and it means '**trick or deceives**.' and the **opposite** word of 'Cozen' is 'Honest'.
 - **Example:** he was able to **cozen** a profit

Hence the **correct opposite** word is **Honest**.

WORDS	MEANING
Cheat(verb)	act dishonestly or unfairly in order to gain an advantage, especially in a game or examination.
Catch(verb)	intercept and hold (something which has been thrown, propelled, or dropped).
Burn(verb)	(of a fire) produce flames and heat while consuming a material such as coal or wood.

19. Answer: d

Explanation:

The correct answer is- 'Unite'

★ Key Points

- 'Secede' is a **verb** and it means 'withdraw formally from membership of a federal union, an alliance, or a political or religious organization.' and the **opposite** word of 'Secede' is 'Unite'.
 - Example:** The kingdom of Belgium **seceded** from the Netherlands in 1830.

Hence the **correct opposite** word is **Unite**.

WORDS	MEANING
Quit(verb)	leave (a place), usually permanently.
Resign(verb)	voluntarily leave a job or other position.
Withdraw(verb)	remove or take away (something) from a particular place or position.

20. Answer: a

Explanation:

The correct answer is- 'Happy'

★ Key Points

- 'Jubilant' is an **adjective** and it means 'feeling or expressing great happiness and triumph' so that the **similar** word of 'Jubilant' is 'Happy'.
 - Example: a large number of **jubilant** fans ran on to the pitch*

Hence the **correct similar** word is **Happy**.

WORDS	MEANING
Aggressive (adjective)	ready or likely to attack or confront; characterized by or resulting from aggression.
Ancient (adjective)	belonging to the very distant past and no longer in existence.
Defeat (verb)	win a victory over (someone) in a battle or other contest; overcome or beat.

21. Answer: c

Explanation:

The correct answer is- 'Scold'

★ Key Points

- 'Reprove' is a **verb** and it means 'to criticize somebody or not approve of something that somebody has done' so the **similar** word of 'Reprove' is 'Scold'.
 - Example: He was **reproved** for obscenity.*

Hence the **correct similar** word is **Scold**.

WORDS	MEANING
Praise (verb)	express warm approval or admiration of.
Laud (verb)	praise (a person or their achievements) highly, especially in a public context.
Commend (verb)	praise formally or officially.

22. Answer: c

Explanation:

The correct answer is- 'of'

★ Key Points

- Using the preposition 'of' in the black space of the given sentence will make a **meaningful** sentence.
- We know that **importance** will take the preposition 'of' (*of - expressing the relationship between a part and a whole.*) after it. It is a kind of a **fixed proposition** here.
 - **Example:** I always dreamed **of** being famous.

Hence the **correct sentence is**- We can never compare the **importance of** money with the importance of love.

★ Additional Information

- Let's find the **uses** of the following **prepositions** :-
 - **For**-period of something; related to a reason.
 - **With**-indicating responsibility.
 - **About**-on the subject of; concerning.

23. Answer: c

Explanation:

The correct answer is- 'has run off'

★ Key Points

- Using 'has run-off' in the blank space of the sentence will make a **meaningful** sentence.
- 'run-off' is a **phrasal verb** here and it means 'leave a place or situation suddenly.'
 - **Example:** He **ran off** to join Napoleon's army and never returned.

Hence **option 3** is the **most appropriate** answer here.

24. Answer: a

Explanation:

The correct answer is - 'error lies in the part-A'

★ Key Points

- Using '**predicted**' in place of '**predict**' to make the sentence **correct**.
- We know that '**have, has, had**' are the **helping verbs** of **perfect tense** and they always take the **third form** of the **verb(V₃)**.
- **Structure of Present Perfect:** *Sub + has/have + V₃ + object*
 - **Example:** Ram **has gone** to market.

The correct sentence is- Experts have **predicted** that within ten years ethanol will emerge as the primary automatic fuel in the world.

25. Answer: a

Explanation:

The correct answer is- 'error lies in the part-I'

★ Key Points

- Remove the article 'a' from the **first part** to make the sentence **correct** .
- We know that articles are used to define a noun. But, **kind** is an **adjective** here so we can't use an article before it.

The correct sentence is- She has kind eyes with a beautiful face.

26. Answer: b

Explanation:

The logic used here,

River: Krishna → Krishna is a river.

Let's check each option,

1) Planet: Sun → Sun is not a planet.

2) Mountain: K2 → K2 is a mountain.

3) Moon: Satellite → Satellite is not a moon.

4) Earth: Grass → Grass is not an Earth.

Here, we can see that Option 2 satisfy the logic.

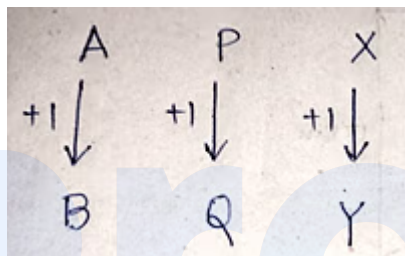
Hence, the correct answer is " **Mountain: K2** " .

27. Answer: c

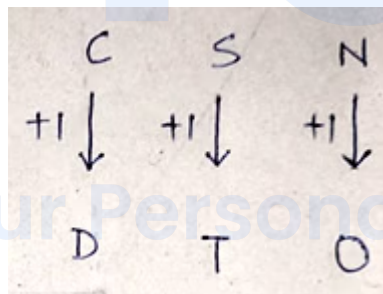
Explanation:

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

The logic followed here is:



Similarly,



Hence, the correct answer is " CSN: DTO ".

28. Answer: b

Explanation:

Solution: Here the pattern of relation followed is (Equipment - Game)

'Boxing Gloves' is used in Boxing. No specification about the type of gloves is given and Gloves (normal gloves) are not used in Boxing.

Hence, 'Gloves - Boxing' is the odd one out.

29. Answer: d

Explanation:

Here the pattern of relation followed is (Number - Number + 1)

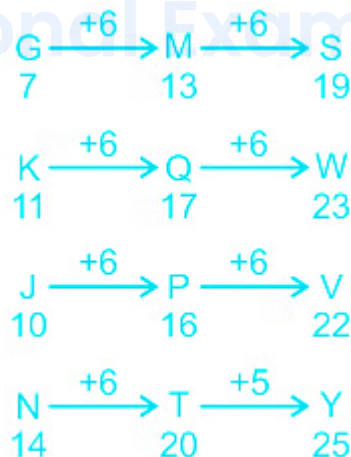
All except '19 - 21' follows the above pattern of relation.

Hence, '19 - 21' is the odd one out.

30. Answer: d

Explanation:

The pattern followed here is:-



As can be seen clearly, 'NTY' does not follow the same pattern as other three options.

Hence, the correct answer is "NTY".

31. Answer: c

Explanation:

1. Thro ttle
5. Thru st
4. Tie r
2. Tig ht
3. Tim e

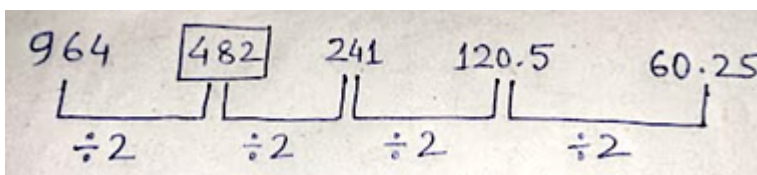
Hence, '15423' is the answer.

32. Answer: a

Explanation:

The logic followed here is:

→ The terms are divided by 2 to get the next term of the series.

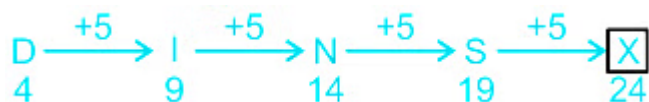


Hence, the correct answer is " 482 ".

33. Answer: d

Explanation:

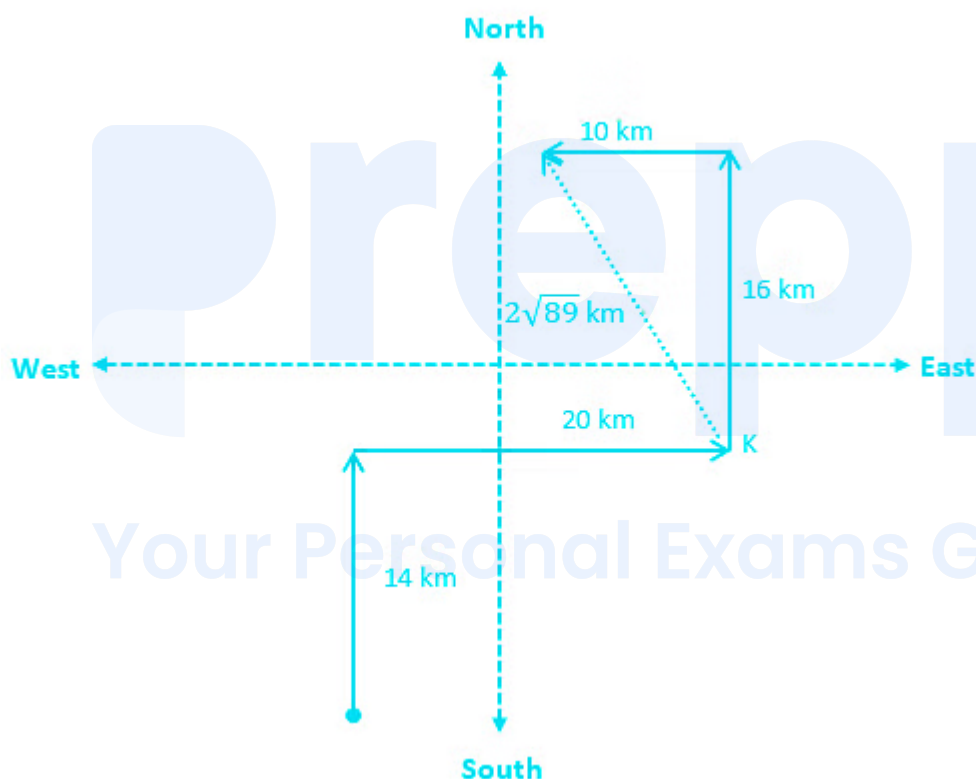
The pattern followed here is:-



Hence, the correct answer is "X".

34. Answer: b

Explanation:



$$\text{Distance} = \sqrt{10^2 + 16^2} \text{ km} \rightarrow 2\sqrt{89} \text{ km}$$

Hence, answer is $2\sqrt{89}$, North-West.

35. Answer: d

Explanation:

Main cannot be formed using 'Countermand' because there is no 'I' in it.

Hence, answer is 'Main'.

36. Answer: b

Explanation:

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

The logic/rule followed here is:

Alphabets are replaced by their respective positional values.

Letter	N	O	T	E	S
Code (Positional Value)	14	15	20	5	19

Letter	M	A	K	A	R
Code (Positional Value)	13	1	11	1	18

Letter	L	O	F	T	S
Code (Positional Value)	12	15	6	20	19

Therefore, LOFTS is written as '121562019' in that code language.

37. Answer: a

Explanation:

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

Symbol	+	-	×	÷
Meaning	-	÷	+	×

Given equation: $18 \times 12 \div 5 - 10 + 10 = ?$

On replacing the symbols:

$$18 + 12 \times 5 \div 10 - 10 = ?$$

$$\rightarrow 18 + 6 - 10$$

$$\rightarrow 24 - 10$$

→ 14

Hence, the answer is "14".

38. Answer: c

Explanation:

Given equation:

$$10 + 14 \times 20 - 7 \div 10 = 40$$

After interchanging ' $\div$ ' and '-' we get:

L.H.S of equation: $10 + 14 \times 20 \div 7 - 10$

$$\rightarrow 10 + 40 - 10$$

$$\rightarrow 50 - 10$$

$$\rightarrow 40 = \text{R.H.S}$$

Hence, answer is ' $\div$ ' and '-'.

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39. Answer: d

Explanation:

The logic/rule followed here is:

$$12@18 = -3 \rightarrow (12 - 18) \div 2 = -3$$

$$18@6 = 6 \rightarrow (18 - 6) \div 2 = 6$$

$$16@8 = 4 \rightarrow (16 - 8) \div 2 = 4$$

Similarly,

$$6@10 \rightarrow (6 - 10) \div 2 = -2$$

Hence, the correct answer is "-2".

40. Answer: a

Explanation:

X	Y	X	Y	X	Y	<u>Z</u>	<u>Z</u>
X	Y	X	Y	X	<u>Z</u>	<u>Z</u>	Y
X	Y	X	Y	<u>Z</u>	<u>Z</u>	X	Y
X	Y	X	<u>Z</u>	<u>Z</u>	Y	X	Y
X	Y	<u>Z</u>	<u>Z</u>	X	Y	X	Y
X	<u>Z</u>	<u>Z</u>	Y	X	Y	X	Y

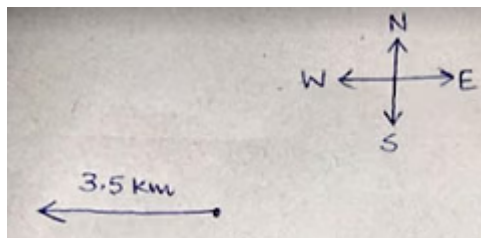
Hence, the answer is 'XZZYXYXY'.

41. Answer: c

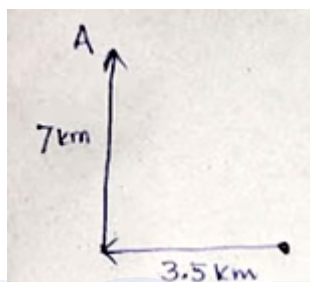
Explanation:

According to the given information,

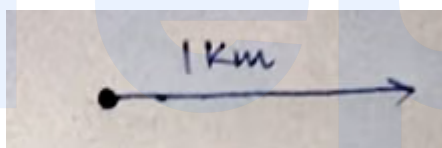
1) A cycles 3.5 km west.



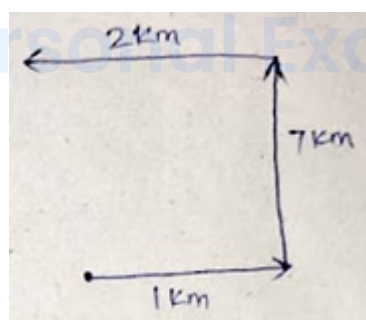
2) Then turns to her right and cycles 7 km.



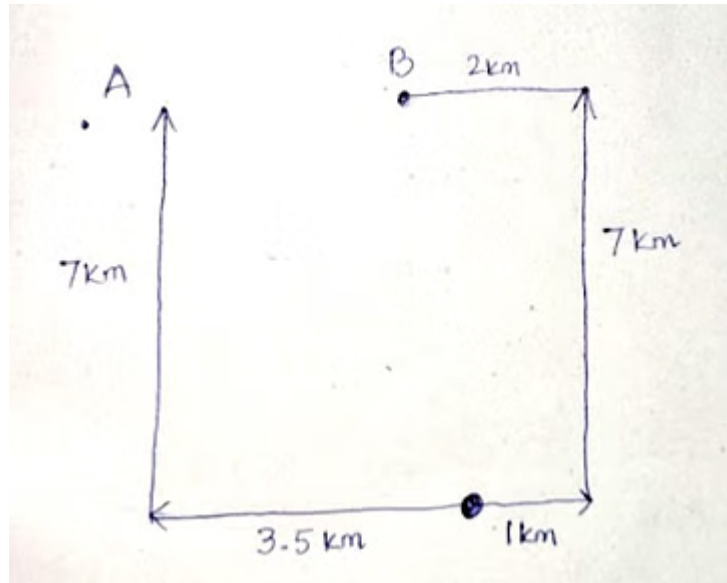
3) B cycles 1 km East.



4) Then turns North and cycles 7 km, then turns to her left and cycles 2 km.



Combining the distance and turns of both cyclists A and B, we get:



Here, we can see that B is 2.5 km in the East direction of A.

Hence, the correct answer is "2.5 km East".

42. Answer: c

Explanation:



Conclusion I: Some towels are rags → True (As All napkins are towels and All rags are napkins)

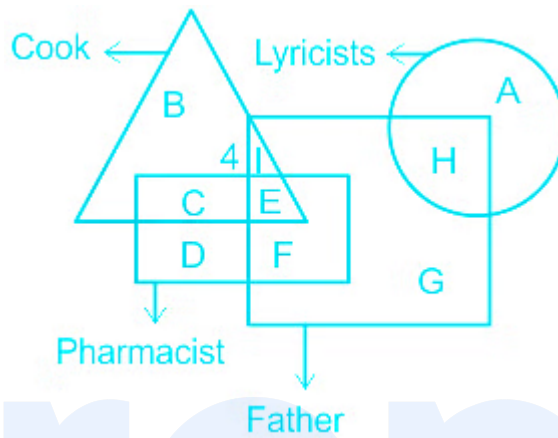
Conclusion II: All rags are towels → True (As All napkins are towels and All rags are napkins)

Hence, Both conclusions I and II follows.

43. Answer: d

Explanation:

In the given figure,



rectangle represents Pharmacists i.e. C, D, E and F

circle represents Lyricists i.e. A and H

triangle represents Cooks i.e. B, C, I and E

square represents Fathers i.e. E, F, G, H and I

Hence, CEF letters represents Pharmacists who are either Fathers or Cooks.

44. Answer: b

Explanation:

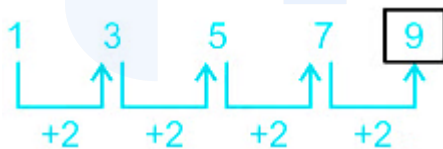


Hence, answer is 'NOG'.

45. Answer: a

Explanation:

The pattern followed here is:-



Hence, the correct answer is "9".

46. Answer: b

Explanation:

The logic followed here is:

Second Number = (First Number + 3).

Third Number = (Second Number + 3).

Let's check each option as per the logic,

1) (31, 34, 37)

$$\rightarrow 34 = (31 + 3)$$

$$\rightarrow 37 = (34 + 3)$$

2) (43, 45, 48)

$$\rightarrow 45 \neq (43 + 3) \rightarrow \text{Doesn't satisfy the logic.}$$

$$\rightarrow 48 = (45 + 3)$$

3) (39, 42, 45)

$$\rightarrow 42 = (39 + 3)$$

$$\rightarrow 45 = (42 + 3)$$

4) (7, 10, 13)

$$\rightarrow 10 = (7 + 3)$$

$$\rightarrow 13 = (10 + 3)$$

Here, we can see that only Option 2 doesn't satisfy the logic.

Hence, the correct answer is " (43, 45, 48) ".

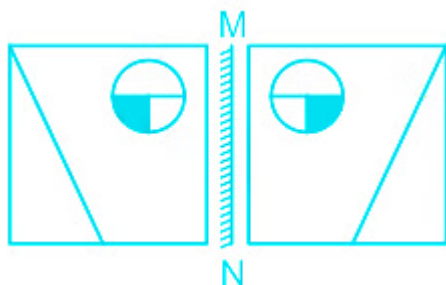
47. Answer: b

Explanation:

Finance commission is a constitutional body set up under Article 280 of the constitution of India.

48. Answer: c

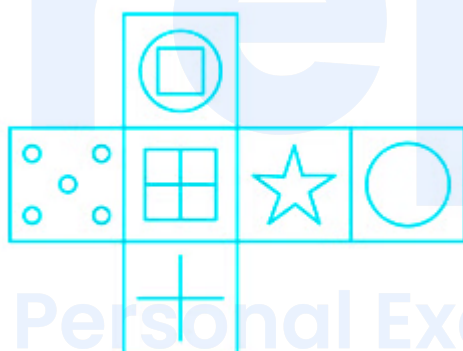
Explanation:



Hence, the answer is option '3'.

49. Answer: b

Explanation:



When the unfolded cube is folded, the pair of opposite sides are,



⇔



⇒



⇒



Now, let's check each option,

1)



→ Can be made.

2)



→ Cannot be made because



and



should be the opposite sides.

3)



→ Can be made.

4)



→ Can be made.

Here, we can see that Only Cube in option 2 cannot be formed.

Hence, the correct answer is " **Option 2** ".

50. **Answer: d**

Explanation:

1) 21,99,31,85 → F, P, A, U

2) 12,87,11,78 → B, X, F, V

3) 31,65,14,76 → A, R, F, S

4) 76,10,68,23 → S, I, N, E

Hence, answer is '76,10,68,23'.

51. **Answer: a**

Explanation:

Here we use elimination method for finding the square root of 1471369

The unit digit of no. 1471369 is 9

We have 4 options 1213, 1223, 1203 and 1233

We get unit digit 9 when we square a no. that is end with 3 or 7

Now we take the square of 1210 that is > 1203 and < 1213

$$\Rightarrow (1210)^2 = 1464100$$

This value $1464100 < 1471369$ so 1203 is eliminated

Now we take the square of 1220 that is > 1213 and < 1223

$$\Rightarrow (1220)^2 = 1488400$$

$\therefore$ This value $1488400 > 1471369$ so we can say that 1471369 is square of 1213

52. Answer: d

Explanation:

$$(9)^{11} \times (5)^7 \times (7)^5 \times (3)^2 \times (17)^2$$

$$\Rightarrow (3^2)^{11} \times (5)^7 \times (7)^5 \times (3)^2 \times (17)^2$$

$$\Rightarrow (3)^{(22+2)} \times (5)^7 \times (7)^5 \times (17)^2 = (3)^{24} \times (5)^7 \times (7)^5 \times (17)^2$$

$\therefore$ Total number of prime factors = sum of the powers of the expression = $24 + 7 + 5 + 2 = 38$

53. Answer: c

Explanation:

If y intercepts then $X = 0$

Points given (X_1, Y_1) and $(X_2, Y_2) = (1, 3)$ and $(3, 5)$

$$\Rightarrow Y - Y_1 = \frac{Y_2 - Y_1}{X_2 - X_1} (X - X_1)$$

$$\Rightarrow Y - 3 = (5 - 3) / (3 - 1) \times (0 - 1)$$

$$\Rightarrow Y - 3 = -1$$

$$\therefore Y = 3 - 1 = 2$$

54. Answer: b

Explanation:

Eq. of 1st line $4x + 4ky - 6 = 0$

Compare the eq. with $a_1x + b_1y + c_1 = 0$

$$\Rightarrow a_1 = 4, b_1 = 4k, c_1 = -6$$

$$m_1 = -\frac{a_1}{b_1} = -\frac{4}{4k} = -\frac{1}{k}$$

Eq. of 2nd line $x + 6y - 12 = 0$

Compare the eq. with $a_2x + b_2y + c_2 = 0$

$$\Rightarrow a_2 = 1, b_2 = 6, c_2 = -12$$

$$m_2 = -\frac{a_2}{b_2} = -\frac{1}{6}$$

Condition for parallel lines is $m_1 = m_2$

$$\Rightarrow -\frac{1}{k} = -\frac{1}{6}$$

$$\therefore k = 6$$

55. Answer: c

Explanation:

In $\triangle PAB$,

$$PB^2 = AB^2 + AP^2$$

$$PB^2 = 8^2 + 6^2 = 64 + 36 = 100$$

$$\Rightarrow PB = 10 \text{ cm}$$

$\triangle PAB$ and $\triangle BQC$ are similar triangle.

$$\text{So, } AB/BC = AP/QC$$

$$\Rightarrow 8/BC = 6/3$$

$$\Rightarrow BC = 4 \text{ cm}$$

In $\triangle BQC$,

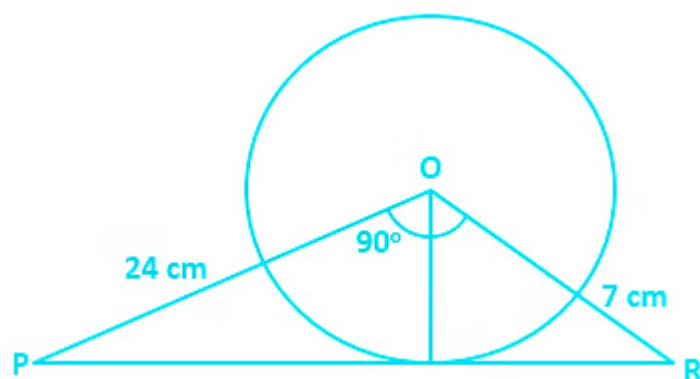
$$BQ^2 = BC^2 + QC^2$$

$$\Rightarrow BQ^2 = 4^2 + 3^2 = 25$$

$$\Rightarrow BQ = 5 \text{ cm}$$

$$\therefore PQ = PB + BQ = 10 + 5 = 15 \text{ cm}$$

56. Answer: c**Explanation:**



In triangle POR, $PR^2 = OP^2 + OR^2$

$$\Rightarrow PR^2 = 24^2 + 7^2 = 576 + 49 = 625$$

$$\therefore PR = 25 \text{ cm}$$

57. Answer: b

Explanation:

Valid votes of winning candidate = 70%

Valid votes of losing candidate = 30%

Difference of valid votes of winning and losing candidates = $70\% - 30\% = 40\%$

$$\Rightarrow 40\% = 9000$$

$$\Rightarrow 10\% = 2250$$

$$\Rightarrow 100\% = 22500 = \text{total valid votes}$$

$$\therefore \text{Total no. of votes polled} = 22500 \times 100/90 = 25000$$

58. Answer: d

Explanation:

$$(3/2) X = (5/7) Y = (6/5) Z$$

Divide the above eq. by the Lcm of their numerators

$$\text{Lcm of their numerators} = \text{Lcm of } (3, 5, 6) = 30$$

Divide the eq. by 30.

$$\Rightarrow \frac{3}{2 \times 30} X = \frac{5}{7 \times 30} Y = \frac{6}{5 \times 30} Z$$

$$\Rightarrow X/20 = Y/42 = Z/25$$

$$\therefore X : Y : Z = 20 : 42 : 25$$

59. Answer: c

Explanation:

Quantity of water in the mixture = 30% of 7 litres = 2.1 litre

Quantity of milk in the mixture = 7 - 2.1 = 4.9 litres

New quantity of milk in the mixture after adding 3.5 litres of milk = 4.9 + 3.5 = 8.4 litres

Quantity of New mixture = 8.4 + 2.1 = 10.5 litres

$\therefore$ Percentage of water in new mixture = $2.1/10.5 \times 100 = 20\%$

60. Answer: d

Explanation:

Average = (Sum of the no.) / (Quantity of no.)

$$\Rightarrow 58.5 = (31 + x + 42 + 39 + 56 + 78 + 83 + 91) / 8$$

$$\Rightarrow 58.5 \times 8 = 420 + x$$

$$\Rightarrow 468 = 420 + x$$

$$\therefore x = 468 - 420 = 48$$

61. Answer: b

Explanation:

Let sum is P

$$\text{S.I.} = (P \times R \times (T_2 - T_1))/100$$

$$\Rightarrow 25.8 = (P \times 6 \times (6 - 5))/100$$

$$\Rightarrow 25.8 = (P \times 6 \times 1)/100$$

$$\therefore P = (25.8 \times 100)/6 = 430$$

62. Answer: a

Explanation:

Ratio of cost price and selling price = 32 : 37

$$\therefore \text{Profit \%} = (37 - 32) / 32 \times 100 = 5/32 \times 100 = 15.625 = 15.63\%$$

63. Answer: b

Explanation:

Let the market price of the article is Rs. 100

$$\text{Case I, Discount \%} = 10 + 10 - (10 \times 10) / 100 = 20 - 1 = 19\%$$

$$\text{Case II, Discount \%} = (\text{Value of free article}) / (\text{Total cost of 7 articles}) \times 100 = 100 / 700 \times 100 = 14.285\%$$

$$\text{Case III, Discount \%} = (\text{Value of free article}) / (\text{Total cost of 9 articles}) \times 100 = 100 / 900 \times 100 = 11.11\%$$

$\therefore$ Case III scheme has the lowest discount percentage

64. Answer: a

Explanation:

Given:

$$x = (\sqrt{2} + 1) / (\sqrt{2} - 1)$$

$$y = (\sqrt{2} - 1) / (\sqrt{2} + 1)$$

Formula Used:

$$(x + y)^2 = x^2 + 2xy + y^2,$$

$$(x - y)^2 = x^2 - 2xy + y^2$$

$$(x + y) \times (x - y) = x^2 - y^2$$

Calculation:

$$x + y = [(\sqrt{2} + 1) / (\sqrt{2} - 1)] + [(\sqrt{2} - 1) / (\sqrt{2} + 1)]$$

$$\Rightarrow [(\sqrt{2} + 1)^2 + (\sqrt{2} - 1)^2] / (\sqrt{2} - 1) \times (\sqrt{2} + 1)$$

$$\Rightarrow [2 + 1 + 2\sqrt{2} + 2 + 1 - 2\sqrt{2}] / (2 - 1)$$

$$\Rightarrow 6$$

$\therefore$ The value of $x + y$ is 6.

65. Answer: b

Explanation:

Given:

X can complete $\frac{5}{7}$ part of a work in 10 days.

Y can complete $\frac{3}{4}$ part of the same work in 9 days.

Concept:-

Basic time and work concept.

Calculation:-

Time taken by X to complete $\frac{5}{7}$ part of a work = 10 days

Time taken by X to complete the whole work = $10 \times \frac{7}{5}$

⇒ 14 days

Time taken by Y to complete $\frac{3}{4}$ part of a work = 9 days

Time taken by Y to complete the whole work = $9 \times \frac{4}{3}$

⇒ 12 days

Total work = LCM of (12 and 14)

⇒ 84 units

Efficiency of X = $\frac{84}{12}$

⇒ 7 units/day

Efficiency of Y = $\frac{84}{14}$

⇒ 6 units/day

Efficiency of X + Y together = 7 + 6

⇒ 13 units/day

Total time taken by X + Y together to complete $\frac{13}{21}$ part of the work = $84 \times \frac{13}{21} \times \frac{1}{13}$

⇒ 4 days

∴ In 4 days will both complete $\frac{13}{21}$ part of the total work.

66. Answer: a

Explanation:

Time taken by train to reach B from A = $5\frac{1}{2} = \frac{11}{2}$ hours

Distance travelled by the train = Speed × Time

∴ Distance travelled by the train = $30 \times \frac{11}{2} = 165$ km

67. Answer: d

Explanation:

As shown in the pie chart, the value of E is 60 lakhs which is least

∴ Answer is E

68. Answer: c

Explanation:

Total number of employees = Employees of states (A + B + C + D + E + F + G)

Total number of employees = $180 + 150 + 180 + 240 + 60 + 120 + 150$

$\therefore$ Total number of employees = 1080

69. Answer: d

Explanation:

Total employees = 1080

Employees from state B = 150

$\therefore$ The central angle of the sector representing state B = $150/1080 \times 360 = 50^\circ$

70. Answer: b

Explanation:

The average monthly salary = Rs 25000

Total salary = Average monthly salary $\times$ Total no. of employees

$\therefore$ Total salary = $25000 \times 180 = 4500000 = 45$ lakhs

71. Answer: a

Explanation:

Given $a = 10$ cm

$\therefore$ Area of equilateral triangle = $\sqrt{3}/4 \times a^2 = \sqrt{3}/4 \times 10^2 = \sqrt{3}/4 \times 100 = 25\sqrt{3} \text{ cm}^2$

72. Answer: d

Explanation:

Let number of sides are N

Interior angle = $180^\circ - (360^\circ)/N$

$$\Rightarrow 108^\circ = 180^\circ - (360^\circ)/N$$

$$\Rightarrow (360^\circ)/N = 180^\circ - 108^\circ = 72^\circ$$

$$\Rightarrow (360^\circ)/(72^\circ) = N$$

$$\therefore N = 5$$

73. Answer: b

Explanation:

Diameter of cylinder = 21 cm

Radius of cylinder = $21/2$ cm

Curved Surface area = $2\pi rh$

$$\Rightarrow 660 = 2 \times 22/7 \times 21/2 \times h$$

$$\Rightarrow 660 = 66 \times h$$

$$\therefore h = 10 \text{ cm}$$

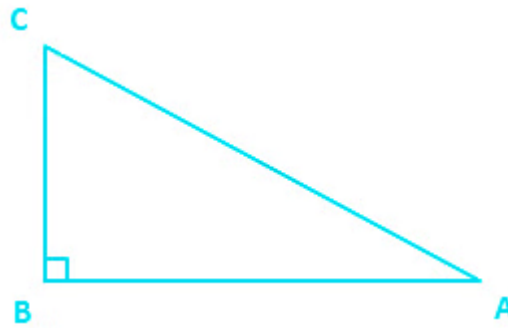
74. Answer: b

Explanation:

$$\therefore 1/\sqrt{3} + \cos 60^\circ = 1/\sqrt{3} + 1/2 = (2 + \sqrt{3})/(2\sqrt{3})$$

75. Answer: a

Explanation:



$$\cos A = 8/17 = AB/AC$$

$$\therefore \cot C = BC/AB = \sqrt{(AC^2 - AB^2)}/AB = \sqrt{(17^2 - 8^2)}/8 = \sqrt{(289 - 64)}/8 = \sqrt{225}/8 = 15/8$$

76. Answer: b

Explanation: Your Personal Exams Guide

With everything else remaining equal, **a greater money supply lowers** market interest rates. Conversely, **less money supply tends to raise** market interest rates.

- This is because if money lenders keep the interest rates high, the debtors would go to other money lenders with lower interest rates as there is a large supply of money.
- So, to attract debtors, the money lenders reduce the interest rates.

77. Answer: c

Explanation:

- is a city in the **Kongu Nadu region** of the Indian state of **Tamil Nadu**
- is the **fifth largest** urban agglomeration and **fourth largest city by area** in Tamil Nadu.
- is a major textile and knitwear hub contributing to **90% of total cotton knitwear exports** from India
- This textile industry provides **employment to over six lakh people** and contributed to exports worth **₹200 billion (US\$3.0 billion)** in 2014-15

78. Answer: b

Explanation:

Nephometer:

- An instrument designed to measure **the amount of cloudiness**
- It consists of a convex hemispherical mirror mapped into six parts.
- the amount of cloud **coverage on the mirror** is noted by the observer and then cloudiness is measured

Your Personal Exams Guide

79. Answer: b

Explanation:

- It is the largest freshwater lake in Northeast India.
- It is famous for the phumdis (heterogeneous mass of vegetation, soil, and organic matter at various stages of decomposition) floating over it.
- It is located near Moirang town in Manipur, India.

80. Answer: d

Explanation:

Timur invaded India:

- Year: **1398**
- Under the reign of ' **Tughlaq Sultan Nasiruddin Mahmud Shah** '

Reasons:

- To destroy and plunder the massive wealth of India
- To fight a "Holy war" against the infidels
- To destroy the temples and the idols and make people believe in Islam

81. Answer: b

Explanation:

REVOLT	LED BY
Kuka Movement	Baba Balak Singh and Bhagat Jawar (or Jawahar) Mal
Rampa Movement	Alluri Sitarama Raju
Pabna Agitation	Fakir Majnu Shah
Bardoli Satyagraha	Sardar Patel

82. Answer: a

Explanation:

India's oldest European church:

- Name – St. Francis Church
- Located – Fort Kochi (Fort Cochin), Originally Kochi
- Built in 1503
- witness to the European colonial struggle in the subcontinent

83. Answer: d

Explanation:

World's First Carbon Capture Plant:

- Country – Iceland; Year–2017 (October)
- Nominated – "Direct air capture"
- There are machines that work like a tree, absorb carbon dioxide (CO₂) out of the air
- Turning thousands of times more carbon and carbon dioxide into stone at the same time

Your Personal Exams Guide

84. Answer: c

Explanation:

V Shantaram Lifetime Achievement Award:

- Made on "Mumbai International Film Festival (MIFF)" for contribution to the documentary movement in India
- Awards – trophy, shawl, quote and Rs. 1000000
- 2018 recipients – filmmaker Shri Shyam Benegal

85. Answer: c

Explanation:

The National Temple of Bangladesh:

- Name – **Dhakeshwari Temple**
- Place – **Dhaka**
- Dhakeshwari means " **Goddess of Dhaka** "
- Built in the **12th century by Ballal Sen** , a king of the Sena dynasty

86. Answer: b

Explanation:

Dobereiner triads:

- The atomic weight of the middle element is nearly the same as the average of the atomic weights of other two elements
- The atomic weight of:

Nitrogen (N) = 14 u

Phosphorus (P) = 30 u

Gold (Au) = 196 u

Hence, (N, P, Au) is not a Dobereiner triad as the atomic weight of Phosphorus (P) is not the average of the atomic weight of Nitrogen (N) and Gold (Au)

87. Answer: d

Explanation:

The correct answer is No option is correct.

★ Key Points

- Metal:
 - It is a type of solid substance that is usually hard and shiny through which electricity and heat can travel.
 - It is a material that when freshly prepared polished or fractured shows a stressful appearance.
 - Metal is typically ductile and malleable.
 - In metal one molecular strongly associated with another molecule
- Non-Metal:
 - A nonmetal is a chemical element that mostly lacks the characteristics of a metal. Those are the elements that form negative ions by accepting or gaining electrons.
 - They are not conducting heat and electricity, they are good insulators of heat and electricity.
 - They are not ductile.
 - All non-metals are placed right side of the periodic table.
 - In the extended modern periodic table total of 22 elements are non-metal.
 - Graphite is an allotrope of carbon but a good conductor and hence an expectation among non-metals.
- Sulphur, Nitrogen and Oxygen are non metalls.

★ Additional Information

- Metalloids
 - Most of their other physical properties and chemical properties are intermediate in nature.
 - Typical metalloids have a metallic appearance.
 - They are brittle and only fair conductors of electricity.
 - Chemically, they behave mostly as nonmetals.
 - They can form alloys with metals.
 - They are lustrous in appearance.
 - Their oxides are amphoteric or weakly acidic.

Table: Modern Periodic table

The zig zag line separates the metals from the non metals

GROUP NUMBER

1 2 13 14 15 16 17 18

1 H He

2 Li Be B C N O F Ne

3 Na Mg Al Si P S Cl Ar

4 K Ca Sc Ti V Cr Mn Fe Co Ni Cu Zn Ga Ge As Se Br Kr

5 Rb Sr Y Zr Nb Mo Tc Ru Rh Pd Ag Cd In Sn Sb Te I Xe

6 Cs Ba La* Hf Ta W Re Os Ir Pt Au Hg Tl Pb Bi Po At Rn

7 Fr Ra Ac** Rf Db Sg Bh Hs Mt Ds Rg Cn Uut Fl Mc Lv Ts Og

Transition Metals

GROUP NUMBER

3 4 5 6 7 8 9 10 11 12

*Lanthanoides 6

**Actinoides 7

58	59	60	61	62	63	64	65	66	67	68	69	70	71
Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
90	91	92	93	94	95	96	97	98	99	100	101	102	103
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

88. Answer: d

Explanation:

- The 52nd Amendment of the Indian Constitution relates to Anti-defection Law.
- The 52nd Amendment Act of 1985 provided for the disqualification of the members of Parliament and the state legislature on the ground of the Deflection of one political party to another.
- The 10th Schedule of the Indian Constitution is designed to prevent political defections prompted by the lure of office or material benefits or other like considerations.
- The Anti-defection law was passed by Parliament in 1985 and was reinforced in 2002.
- The 10th Schedule of the Indian Constitution popularly referred to as the 'Anti-Defection Law' was inserted by the 52nd Amendment (1985) to the Constitution.

- 'Defection' has been defined as per the constitution as, "To abandon a position or association, often to join an opposing group".
- The anti-defection law was enacted to ensure that a party member does not violate the mandate of the party and or else on doing so he will lose his membership of the House.
- The law applies to both Parliament and state assemblies.
- The aim of the Anti-Defection Law is to prevent MPs from switching political parties for any personal motive.

89. Answer: c

Explanation:

The correct answer is Special Majority of Parliament and consent of States.

★ Key Points

The election of the President of India and its manner can be amended by:

- **Special Majority of Parliament**
 - It is not a simple majority as it includes a "Single Transferable Vote System".
- **Consent of States**
 - Because there is uniformity in the scale of representation of different states at the election of the president.
- One needs to get **more than half of the valid votes** to be elected as the president.

90. Answer: a

Explanation:

- Fungi are not capable of producing their own food, so they get their nourishment from other sources and appear like plants but are closely related

to animals.

- They live everywhere. In water, on land, in the soil, and on or in plants and animals.
- The organisms in kingdom fungi include mushrooms, yeasts, molds, rusts, smuts, puffballs, truffles, morels, and molds etc.

91. Answer: b

Explanation:

SAATHI:

- Launched by " **Ministries of Power and Textiles** "
- Under this initiative, **Energy Efficiency Services Limited (EESL)** , a public sector entity under the administrative control of Ministry of Power, would procure energy efficient Powerlooms, motors and Rapier kits in bulk and provide them to **the small and medium Powerloom units at no upfront cost**
- use of these efficient equipments would **result in energy savings and cost savings to the unit owner**
- a unit owner **does not have to allocate additional expenditure for repayment** as the repayments to EESL are made from the savings that come as a result of higher efficiency equipments and cost savings.

92. Answer: a

Explanation:

- 3200 Phaethon is the name of the asteroid that causes Geminid meteor shower display around 15 December of every year.
- 3200 Phaethon is an Apollo Asteroid and it is believed that it might have undergone a collision with another object in the distant past to produce the stream of particles that Earth, which we call the meteor shower.

- When it approaches Sun, it sheds a huge amount of rock and dust in its path and Earth happens to pass that path every year between December 4-16.
- Geminid Meteor display is an annual meteor shower, with peak rates of about 120 per hour caused by the "**3200 Phaethon asteroid**" around **15 December** of every year.
- It is named after the constellation Gemini, the point from which the meteors seem to radiate which was first noted as a minor meteor shower back in 1862.

93. Answer: c

Explanation:

PCA:

- stands for "**Prompt Corrective Action**"
- generally **restricts lending activities** of the banks
- direct banks to disburse loans only to those companies whose borrowing is above investment grades
- **11** public sector banks have been covered under it. For eg: Allahabad Bank, United Bank of India, Corporation Bank, IDBI Bank, UCO Bank, Bank of India, Central Bank of India etc.

Your Personal Exams Guide

94. Answer: b

Explanation:

Beti Bachao, Beti Padhao: (Save girl child, educate a girl child)

- is a personal campaign of the **Government of India**
- aims to generate awareness and improve the efficiency of welfare services **intended for girls**

Cabinet approves Expansion of Beti Bachao Beti Padhao:

- for a Pan India coverage in all the **640 districts**
- a proposed outlay of **Rs.1132.5 Crore** and approved for the duration 2017-18 to 2019-20

95. Answer: b

Explanation:

- NGO named, **Shakti Vahini**, filed a petition in **2010** against the **attacks and interference on adults opting for inter-caste marriage**
- They asked for **a ban on such crimes** and on khap panchayats or self-appointed village courts in parts of north India, especially Haryana
- Supreme Court ruled the attacks and interference on such activities as '**absolutely illegal**' in the petition

96. Answer: b

Explanation:

Here,

Initial velocity; $u = 5 \text{ m/s}$

Final velocity; $v = 10 \text{ m/s}$

Acceleration given; $a = 1 \text{ m/s}^2$

Let the displacement be ' S '

Using the formula;

$$[v^2 - u^2 = 2 \cdot a \cdot S]$$

and putting the values we get, Displacement (S) = 37.5 m

97. Answer: b

Explanation:

The correct answer is Potential energy gets converted into kinetic energy.

Explanation:

- When an object (mass m) is at any height (h) from the ground, it attains potential energy (PE) due to the virtue of its position wrt to the ground ie. $PE = mgh$
- As it falls, the value of h decreases and as a consequence its PE decreases and gets converted into kinetic energy.
- Kinetic energy is the energy which is acquired from the motion of the object and the object is obviously in motion when it falls.

98. Answer: d

Explanation:

Greenhouse gas:

- a gas in an atmosphere that **absorbs and emits radiant energy** within the thermal infrared range
- the **fundamental cause** of the greenhouse effect
- For eg: water vapor, carbon dioxide, methane, nitrous oxide, and ozone

99. Answer: a

Explanation:

- In 2017 Pro Kabaddi League, Sandeep Narwal played for " **PuneriPaltan** "
- In 2017, " **DaniPedrosa** " raced in MotoGP for Honda

- In 2017, " **Gautam Gambhir** " captained the IPL team Kolkata Knight Riders

100. **Answer: a**

Explanation:

Shortcut	Leads to
Ctrl+ down arrow key	End of column
Ctrl+ up arrow key	Start of column
Ctrl+ right arrow key	End of row
Ctrl+ left arrow key	Start of row

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