



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC CHSL 2017 (Tier-I) Previous Year Paper (17-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. svivelling
- b. swivaling
- c. swivelling
- d. sviveling

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)

I was able to sense

A-a mildly supercilious tone, despite his

B-was unnerving

C-warmth and friendliness, and it

- a. ABC
- b. CBA
- c. ACB
- d. CAB

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 (+2, -0.5)

improvement is needed, select "no improvement".

The battle (had been raging) for some time.

- a. have been raging
- b. have been raged
- c. had being raged
- 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)

Winds blowing northwards (has took) our kite to a vertiginous height.

- a. had take
- b. had taken
- c. had taking
- 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)

Recklessly extravagant or wasteful in the use of resources

- a. Profligate
- b. Churlish
- c. Harpy

d. Hoarder

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)

Causing annoyance or resentment

- a. Congenial
 - b. Gallig
 - c. Amiable
 - d. Mellow
-

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)

Back seat driver

- a. A passenger who gives unwanted and/or unneeded directions to the driver.
 - b. A person who gives unwanted advice is sometimes right.
 - c. When too many people are controlling a project it is bound to fail.
 - d. A person who acts as a remote control taking orders from others.
-

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)

Can't judge a book by its cover

- a. If you love something dearly then you have to protect it.
- b. You shouldn't prejudge the value of something, by its outward appearance alone.
- c. To make a false opinion without even seeing that person is prejudice.
- d. A bad book needs a good cover to make it saleable.

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)

The written word is necessarily confined _____ the things of the understanding because only the understanding has written language; whereas art deals _____ ideas of a different mental texture, which words can only vaguely _____. However, there are a large number of people who, _____ they cannot be said to have experienced in a full sense any works of art, have undoubtedly the impelling desire which a little direction may lead on to a fuller _____. And it is to such that books on art are useful.

lead on to a fuller _____. And it is to such

- a. appreciate
 - b. appreciates
 - c. appreciation
 - d. appreciator
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)

The written word is necessarily confined _____ the things of the understanding because only the understanding has written language; whereas art deals _____ ideas of a different mental texture, which words can only vaguely _____. However, there are a large number of people who, _____ they cannot be said to have experienced in a full sense any works of art, have undoubtedly the impelling desire which a little direction may lead on to a fuller _____. And it is to such that books on art are useful.

people who, _____ they cannot be

- a. although
- b. then
- c. if
- d. when

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)

The written word is necessarily confined _____ the things of the understanding because only the understanding has written language; whereas art deals _____ ideas of a different mental texture, which words can only vaguely _____. However, there are a large number of people who, _____ they cannot be said to have experienced in a full sense any works of art, have undoubtedly the impelling desire which a little direction may lead on to a fuller _____. And it is to such that books on art are useful.

can only vaguely _____. However, there are

- a. suggestion

- b. suggested
- c. suggest
- d. suggests

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)

The written word is necessarily confined _____ the things of the understanding because only the understanding has written language; whereas art deals _____ ideas of a different mental texture, which words can only vaguely _____. However, there are a large number of people who, _____ they cannot be said to have experienced in a full sense any works of art, have undoubtedly the impelling desire which a little direction may lead on to a fuller _____. And it is to such that books on art are useful.

whereas art deals _____ ideas of a different

- a. if
- b. for
- c. each
- d. with

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)

The written word is necessarily confined _____ the things of the understanding because only the understanding has written language; whereas art deals _____ ideas of a different mental texture,

which words can only vaguely _____. However, there are a large number of people who, _____ they cannot be said to have experienced in a full sense any works of art, have undoubtedly the impelling desire which a little direction may lead on to a fuller _____. And it is to such that books on art are useful.

necessarily confined _____ the things of

- a. at
- b. to
- c. so
- d. of

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. Immediately
- b. Imedately
- c. Immiediately
- d. Immedately

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)

"Cheer up, father, I'll go and get work somewhere." said Jane.

- a. Jane ask her father to cheer up as she will go and get work somewhere.

- b. Jane asked her father to cheer up, because she would be gone and got work somewhere.
- c. Jane asks her father to cheer up as she would get job.
- d. Jane asked her father to cheer up as she would go and get work somewhere.

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)

Shah Jahan built the Red Fort.

- a. The Red Fort is build by Shah Jahan.
- b. The Red Fort was built by Shah Jahan.
- c. The Red Fort got build by Shah Jahan.
- d. The Red Fort built by Shah Jahan.

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

The art of letter-writing is

P: something that every educated person

Q: must acquire for practical purposes

R: not merely an ornamental accomplishment, but

- a. PRQ
- b. QRP

c. RPQ

d. RQP

18. 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)

Grandiose

a. Noble

b. Impressive

c. Moderate

d. Vast

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)

Officious

a. Busy

b. Intrusive

c. Rude

d. Timid

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)

Volition

- a. Dependence
 - b. Violence
 - c. Villainy
 - d. Choice
-

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)

Insuperable

- a. Weak
 - b. Insurmountable
 - c. Beatable
 - d. Unstable
-

22. 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)

The power of silence is in its ability to mediate the _____.

- a. excitable
 - b. irreconcilable
 - c. excusable
 - d. fashionable
-

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)

The lecturer did not see her _____.

- a. again
- b. besides
- c. anew
- d. nevermore

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)

You'll spend most of your time gaping (1)/ in awe at the Kailash temple, but that (2)/ isn't a only gem that Ellora has to offer. (3)/ No error (4)

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

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)

Mark won all of (1)/ the award for the categories (2)/ in which he was nominated. (3)/ No error (4)

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

Prepp

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General Intelligence

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

Police : Criminals :: ? : ?

- a. Sister : Female
- b. Teacher : Teach
- c. Doctor : Patient
- d. Law : Lawyer

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

16 : 21 :: ? : ?

- a. 14 : 19
- b. 15 : 23
- c. 18 : 22
- d. 21 : 29

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

ROK : SNL :: PAT : ?

- a. NYR

- b. RCV**
 - c. QZU**
 - d. OZS**
-

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

- a. Cow - Animal**
 - b. Peacock - Bird**
 - c. Planet - Venus**
 - d. Chair - Furniture**
-

30. In the following question, four number pairs are given. The number on left side of (-) is related to the number of 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 given alternatives. **(+2, -0.5)**

- a. 11 - 100**
 - b. 13 - 144**
 - c. 19 - 324**
 - d. 17 - 246**
-

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

- a. XYZ**

b. LMN

c. CDF

d. RST

32. From the given alternatives, according to dictionary, which word will come at FOURTH position? (+2, -0.5)

1. Camera

2. Candy

3. Candle

4. Camel

5. Cactus

a. Candy

b. Cactus

c. Camera

d. Candle

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

15, 7.5, 7.5, ?, 22.5, 56.25

a. 10.25

b. 11.25

c. 11

d. 12.5

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

V, T, Q, M, ?

a. K

b. J

c. I

d. H

35. Present ages of Rahul and his brother are in the ratio of 5 : 3. After 4 years ratio of ages of Rahul's brother and his sister will be 5 : 6. If the present age of his sister is 26 years, then what will be the age (in years) of Rahul 3 years from now? (+2, -0.5)

a. 38

b. 35

c. 40

d. 31

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

Responsibility

a. Ability

- b. Pen
- c. Nose
- d. Possible

37. In a certain code language, "Mayank is happy" is written as "ku tap pi", "happy are make" is written as "tap le fu" and "make is happy" is written as "fu pi tap". What is the code for "happy" in that code language? (+2, -0.5)

- a. tap
- b. fu
- c. pi
- d. ku

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

$8 \div 2 - 25 + 10 \times 3 = ?$

- a. 38
- b. 36
- c. 10
- d. 30

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

$$12 + 8 - 25 \div 10 \times 18 = 14$$

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

40. If $2 \% 1 = 30$, $6 \% 2 = 80$ and $2 \% 5 = 70$, then find the value of $4 \% 1 = ?$ (+2, -0.5)

- a. 100
- b. 50
- c. 80
- d. 30

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

QPQPQRQP, QPQPRQP, QPQRQPQP, QPRQPQP, QRPQPQP,
-----.

- a. RQPQPQP
- b. QPQPQPRQP
- c. QPQPQRQP
- d. QPQPRQP

42. A man leaves from his home for work on his motorcycle. He goes 5 km South, then turn to his left and travels 6 km, then turns South and travels 13 km then turns West and travels 6 km to reach his office. Where is his office with reference to his home? (+2, -0.5)

- a. 8 km South
- b. 18 km South
- c. 13 km North
- d. 18 km North

43. 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 be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements. (+2, -0.5)

Statement I: Some roses are flowers

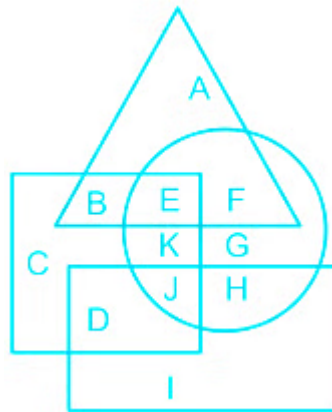
Statement II: Some red are roses

Conclusion I: Some flowers are red

Conclusion II: All red are flowers

- 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

44. In the following figure, rectangle represents Chefs, circle represents Racers, triangle represents Jugglers and square represents Golfers. Which set of letters represents Racers who are not Jugglers? (+2, -0.5)



- a. EF
- b. KGJH
- c. EFKG
- d. EKJ

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

MTS, LSR, KRQ, JQP, ?

- a. HPO
- b. ION
- c. HON
- d. IPO

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

113, 116, 119, 122, 125, ?

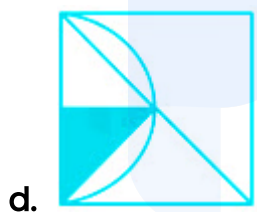
- a. 128
- b. 126
- c. 129
- d. 130

47. 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)

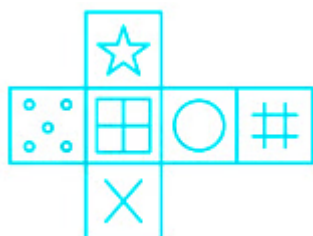
- a. (31, 33, 35)
- b. (41, 43, 45)
- c. (43, 45, 47)
- d. (33, 37, 39)

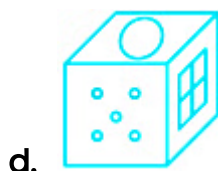
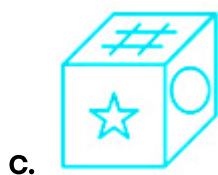
48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure? (+2, -0.5)





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)





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 'H' can be represented by 13, 21 etc and 'T' can be represented by 57, 79 etc. Similarly, you have to identify the set for the word 'GLOW'.

(+2,
-0.5)

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

a. 12, 88, 41, 85

b. 41, 76, 31, 79

c. 30, 14, 75, 76

d. 32, 85, 33, 57

Your Personal Exams Guide

Quantitative Aptitude

51. Find the value of

(+2, -0.5)

$$\left[7 \left(64^{\frac{1}{3}} + 27^{\frac{1}{3}} \right)^3 \right]^{\frac{1}{4}}$$

- a. 7
- b. 6
- c. 49
- d. 343

52. Which of the following number is largest among all?

(+2, -0.5)

$$0.7, 0.\bar{7}, 0.0\bar{7}, 0.\overline{07}$$

- a. $0.\overline{07}$
- b. $0.0\bar{7}$
- c. 0.7
- d. $0.\bar{7}$

53. If $a_n = \frac{1}{n+1} + 1$ then find the value of $a_1 + a_3 + a_5$

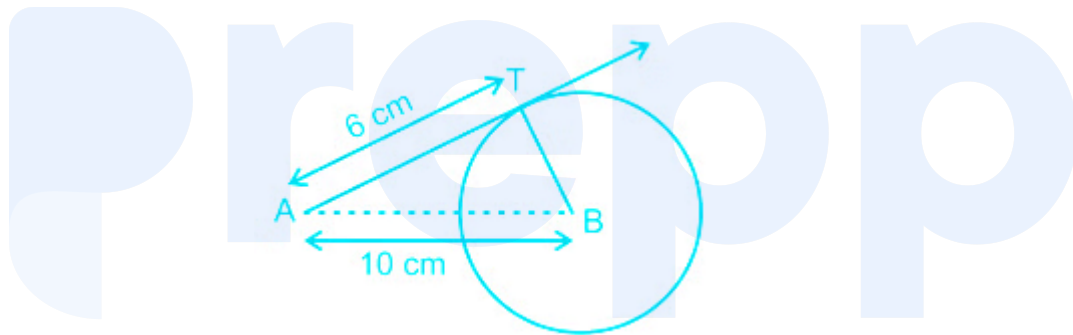
(+2, -0.5)

- a. $17/12$
- b. $27/12$
- c. $37/12$
- d. $47/12$

54. If $p \& q = p^2 + 4pq - q^2$ then find the value of $(3 \& 6) + (4 \& 5)$. (+2, -0.5)

- a. 98
- b. 106
- c. 116
- d. 126

55. For the circle shown below, find the length (in cm) of the largest chord of the circle. (+2, -0.5)



- a. 8
- b. 12
- c. 16
- d. 18

56. The base and perpendicular of a right angled triangle is 12 cm and 5 cm respectively. Find the circum-radius (in cm) of the triangle. (+2, -0.5)

- a. 5
- b. 6

c. 6.5

d. 7

57. If the price of sugar is decreased by 18%, then a person can buy 16.2 kg sugar more for Rs. 4500. What will be the new price (in Rs) of sugar per kg? (+2, -0.5)

a. 40

b. 60

c. 45

d. 50

58. The income of P, Q and R are in the ratio of 5 : 4 : 3 respectively and their expenses are in the ratio of 6 : 5 : 4 respectively. If P saves Rs. 4000 out of an income of Rs. 10000, then what will be the saving (in Rs) of Q? (+2, -0.5)

a. 3000

b. 4500

c. 2000

d. 2500

59. X and Y are two alloys which are prepared by mixing zinc and aluminium in the ratio of 1 : 4 and 11 : 8 respectively. If equal quantities of alloys are melted to form a third alloy Z then what is the ratio of zinc and aluminium in alloy Z? (+2, -0.5)

a. 32 : 47

b. 37 : 58

c. 37 : 95

d. 74 : 95

60. What will be the average of all the prime numbers before 19? (+2, -0.5)

a. 8.28

b. 11.5

c. 5.34

d. 9.63

61. The simple interest on a sum of money is $\frac{16}{25}$ of the principal. The number of years is equal to the rate of interest per annum. What is the rate (in percentage) of interest per annum? (+2, -0.5)

a. 4

b. 16

c. 8

d. 12

62. If Rajan purchase 21 pens for Rs. 20 and sell all the pens at the rate of 20 pens for Rs. 21, then what will be the profit percentage? (+2, -0.5)

a. 12.5

b. 13.33

c. 10.25

d. 16.66

63. A book is sold at three successive discounts of 20%, 20% and 10%. What is the net discount (in percentage)? (+2, -0.5)

a. 42.4

b. 48.6

c. 44.2

d. 40.4

64. What is the value of $\sqrt[3]{512} + \sqrt{169} + \sqrt[3]{216} + \sqrt{225}$? (+2, -0.5)

a. 48

b. 32

c. 42

d. 36

65. Rashika can do a work in 5 days. Rashmi can do the same work in 7 days. Both of them finish the work together and they get Rs. 240 for the work. What is the share (in Rs.) of Rashika? (+2, -0.5)

a. 120

b. 100

c. 140

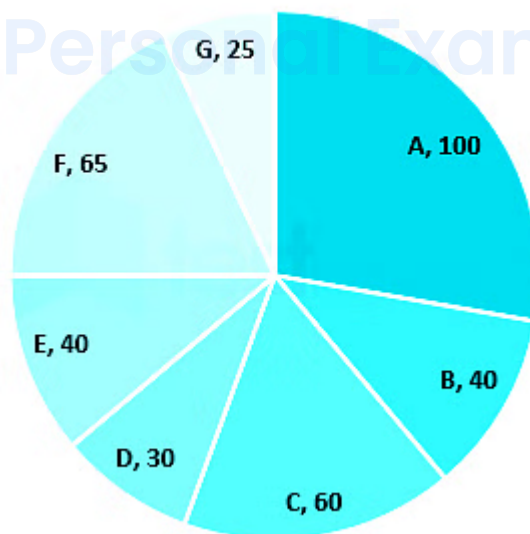
d. 160

66. $\frac{1}{3}$ part of a certain journey is covered with the speed of 25 km/hr, $\frac{1}{2}$ part of the journey is covered with the speed of 45 km/hr and the remaining part covered with the speed of 37.5 km/hr. What is the average speed (in km/hr) for the whole journey? (+2, -0.5)

- a. 37.08
b. 34.61
c. 43
d. 56

67. **Direction:** The pie chart shows the contribution of all the sectors towards th GDP of the economy of a certain country. Study the diagram and answer the following questions. (+2, -0.5)

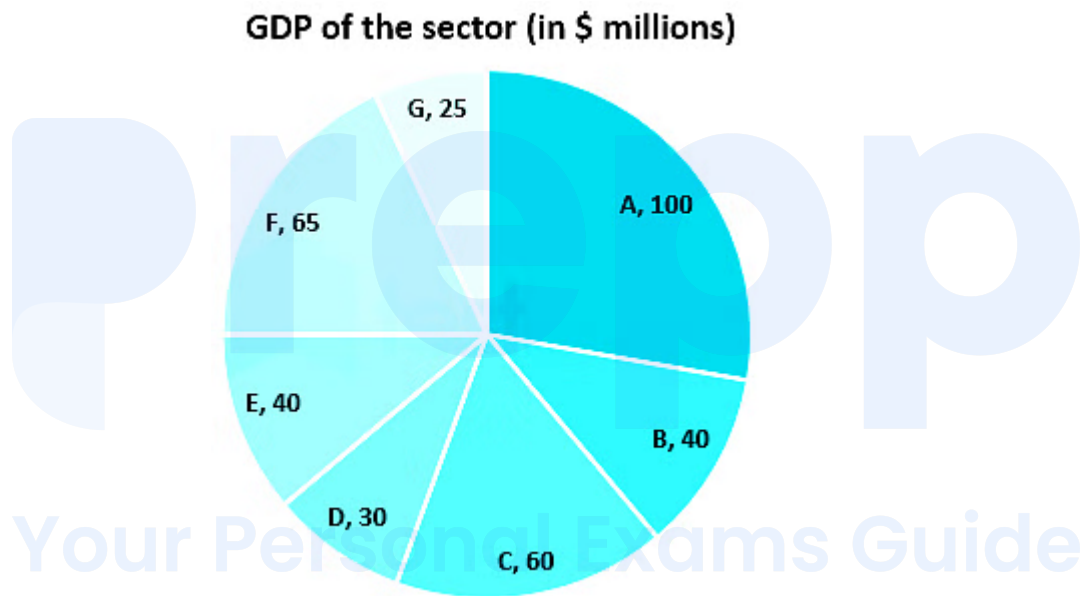
GDP of the sector (in \$ millions)



Which sector has made the second highest contribution?

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

68. **Direction:** The pie chart shows the contribution of all the sectors towards the GDP of the economy of a certain country. Study the diagram and answer the following questions. (+2, -0.5)

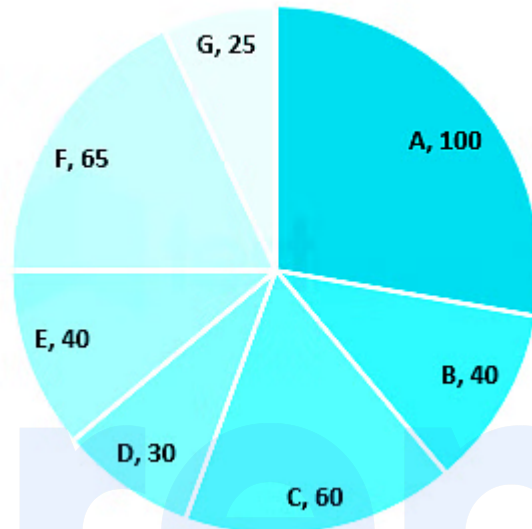


What is the total GDP of the country (in \$ millions)?

- a. 400
- b. 450
- c. 360
- d. 300

69. **Direction:** The pie chart shows the contribution of all the sectors towards th GDP of the economy of a certain country. Study the diagram and answer the following questions. (+2, -0.5)

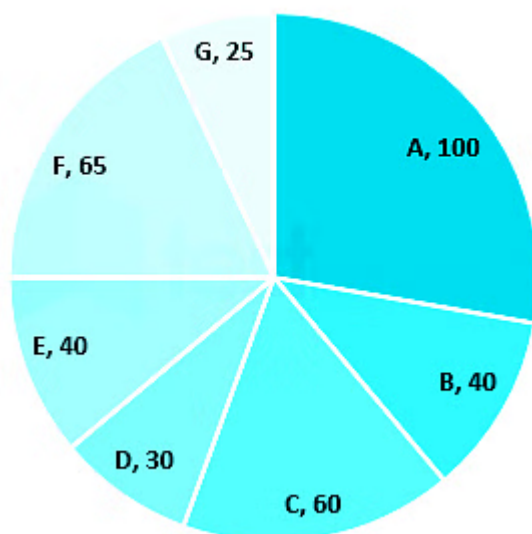
GDP of the sector (in \$ millions)



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

- a. 30
- b. 36
- c. 45
- d. 60
-
70. **Direction:** The pie chart shows the contribution of all the sectors towards th GDP of the economy of a certain country. Study the diagram and answer the following questions. (+2, -0.5)

GDP of the sector (in \$ millions)



If in the following year sectors A, B and C grew by 9% and the remaining sectors grew by 3%, how much did the overall economy grow by?

- a. 6.33%
- b. 5.55%
- c. 5%
- d. 7%

Your Personal Exams Guide

71. The area of a square is 30.25 cm^2 . Find its perimeter (in cm).

(+2, -0.5)

- a. 44
- b. 23
- c. 22
- d. 46

72. The circumference of a circle is 110 cm. Find its radius (in cm).

(+2, -0.5)

- a. 35
 - b. 19.5
 - c. 17.5
 - d. 39
-

73. Find the total surface area (in cm^2) of a right circular cylinder of diameter 28 cm and height 12 cm. (+2, -0.5)

- a. 2200
 - b. 2080
 - c. 1920
 - d. 2288
-

74. What is the value of $(\cos 30^\circ + 1/2)$? (+2, -0.5)

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

75. $\triangle DEF$ is right angled at E. If $\operatorname{cosec} D = 5/4$, then what is the value of $\operatorname{cosec} F$? (+2, -0.5)

- a. $5/3$

b. $\frac{3}{4}$

c. $\frac{4}{5}$

d. $\frac{4}{3}$

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General Awareness

76. What is poverty gap? (+2, -0.5)
- a. the difference between poverty line and actual income level of all those living below that line
 - b. gap between developed and developing nations
 - c. gap between the rich and the poor
 - d. gap between infrastructural facilities in developed and developing nations
-
77. Which Five Year Plan adopted Indicative Planning in India? (+2, -0.5)
- a. Ninth
 - b. Fourth
 - c. Third
 - d. Eighth
-
78. Which of the following events is NOT considered for the time being of Viceroy Lord Lytton? (+2, -0.5)
- a. Afghan War
 - b. Burma war
 - c. Arms Act
 - d. Press Act

79. Which of the following pairs is not correctly matched?

(+2, -0.5)

- a. Munda Rebellion: 1899
- b. Vellore Mutiny: 1806
- c. Santhal Rebellion: 1855
- d. Chuar Rebellion: 1870

80. Fausa Magna is a -----

(+2, -0.5)

- a. Volcano
- b. V-shaped valley
- c. Rift lowland
- d. Rift Valley

81. Where is the Nandi hill located?

(+2, -0.5)

- a. Bihar
- b. Gujarat
- c. Karnataka
- d. Rajasthan

82. Who of the following is **NOT** related to ghazal singing?

(+2, -0.5)

- a. Begum Akhtar

- b. Malika Pukhraj
 - c. Penaz Masani
 - d. Haribhai Varadkar
-

83. At which city the 10th South Asia Economic Summit (SAES) was held in November 2017? (+2, -0.5)

- a. Dhaka
 - b. Kathmandu
 - c. Colombo
 - d. Hyderabad
-

84. Who is the first African-American actor to win the Best Actor Award in a Television Drama in the history of Golden Globe? (+2, -0.5)

- a. Gary Oldman
 - b. James Franco
 - c. Aziz Ansari
 - d. Sterling K. Brown
-

85. Bhutan's national language is known as _____. (+2, -0.5)

- a. Dzongkha
- b. Khengkha

- c. Tshanglakha
 - d. Lhotshamkha
-

86. Multiplication of equivalent weight and valency of an element is equal to (+2, -0.5)
-----.

- a. Density
 - b. Relative temperature
 - c. Atomic weight
 - d. Atomicity
-

87. Plaster of Paris ----- (+2, -0.5)

- I. changes into gypsum on mixing with water
- II. is $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
- III. is used for decoration

- a. Only I and II
 - b. Only I and III
 - c. Only II and III
 - d. All I, II and III
-

88. In Indian Parliament, under which condition a house can declare the seat (+2, -0.5)
of a member vacant?

- a. If member is absent from all meetings of the house for 60 days continuously
 - b. If member is absent from all meetings of the house for 45 days continuously
 - c. If member is absent from all meetings of the house for 30 days continuously
 - d. If member is absent from all meetings of the house for 21 days continuously
-

89. There are usually three Parliamentary sessions in India, viz, the Budget session, the Monsoon session, and ----- (+2, -0.5)
- a. the Autumn session
 - b. the Summer session
 - c. the Winter session
 - d. None of these
-

90. Which of the following is/are the function(s) of bile juice released from the liver? (+2, -0.5)
- I. Make the food coming from stomach alkaline.
 - II. Conversion of proteins into amino acids.
 - III. Break down of fats into smaller globules.
- a. Only I
 - b. Only II and III
-

- c. Only I and III
 - d. All I, II and III
-

91. The wing of a bat and the wing of a bird are the examples of _____ (+2, -0.5)
limbs.

- a. Homogenous
 - b. Heterogeneous
 - c. Analogous
 - d. Homologous
-

92. In August 2017, National Highway Authority of India (NHAI) launched two (+2, -0.5)
mobile apps named 'My FASTag' and '_____'.
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- a. FASTag Lane
 - b. FASTag Partner
 - c. FASTag First
 - d. FASTag Life
-

93. What is the code name of world's largest amphibious aircraft made by (+2, -0.5)
China?

- a. Kunlong
- b. Sea Star
- c. Libelle

d. Dornier

94. As per the announcement by the government in August 2017, Banks importing gold and precious metals will have to pay _____ tax under the GST. (+2, -0.5)

a. 5%

b. 10%

c. 3%

d. 8%

95. On 3 January 2018, Lok Sabha passed Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017. The Bill empowers _____ to allow works in a prohibited area. (+2, -0.5)

a. State Government

b. Central Government

c. Local Panchayat

d. Municipal Corporation

96. Find the work done (in J) when a charge of 20 C moves across a potential difference of 4 V. (+2, -0.5)

a. 5

b. 40

c. 80

d. 10

97. The magnitude of the gravitational force will be equal to the _____. (+2, -0.5)

- a. product of mass and acceleration due to the gravitational force.
 - b. ratio of mass and acceleration due to the gravitational force.
 - c. ratio of acceleration due to the gravitational force and mass.
 - d. reciprocal of product of mass and acceleration due to the gravitational force.
-

98. The power of _____ is expressed in terms of a magnitude on a scale called Richter scale. (+2, -0.5)

- a. a tornado
 - b. a volcano
 - c. an earthquake
 - d. a thunderstorm
-

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

- A) Valentino Rossi won the Motorcycle race 2017 Dutch TT MotoGP.
 - B) Germany hosted the 2017 AIBA World Boxing Championships.
 - C) In 2017 Pro Kabaddi League, Surjeet Singh played for Bengal Warriors.
- a. Only C
 - b. Both A and C

- c. A, B and C
 - d. None of these
-

100. The _____ has emerged as a convenient means of global communication, information sharing and services. (+2, -0.5)

- a. e-books
- b. Internet
- c. Satellites
- d. Public telephone booths

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Answers

1. Answer: c

Explanation:

The correct spelling is **Swivelling**.

★ Key Points:-

- Let's look at the **correct spelling** and **meaning** of the given word:-
 - **Swivelling** (*verb*) -turn around a point or axis or on a swivel.
 - For Example - He **swivelled** in the chair.
 - **Synonyms** - Turn spin, swing, rotate

Therefore, the correct spelling of the given word is **Swivelling**.

2. Answer: c

Explanation:

Here the correct answer is ACB.

★ Key Points

:-

- A sentence can't end with '**despite his**' or **and 'it'**.
- Thus, only '**B**' can be the last sentence.
- So, this conclusion rules out option 1 and 2.
- **Option 4** is wrong as **CAB** means: **and it a mildly supercilious tone** which makes no sense.

Therefore, the correct sentence is/ was able to sense a mildly supercilious tone, despite his warmth and friendliness, and it was unnerving.

3. Answer: d

Explanation:

Here the correct answer is **No improvement**.

★ Key Points

:-

- The above given sentence is in **past perfect continuous tense**.
- **Past perfect continuous tense** is used to express **those actions that started in past, continued for a period of time and then finished in past**.
- The structure of Past perfect continuous tense is as follows:-
 - **Subject + had been + V₁ ing + Object + since/for + timebeing.**
- For Example – He **had been playing** for two hours.
- In the given sentence, the battle had been raging for sometime.
- Thus, **past perfect continuous tense** has been used.

Therefore, the correct sentence is *The battle had been raging for some time.*

4. Answer: b

Explanation:

Here the correct answer is **Had taken**.

★ Key Points:-

- In the above given sentence, '**had taken**' will be used.
- It is so because '**has**' and '**had**' take the past participle form.
- Past participle form of take is **taken**.
- Further, the given sentence is in **past perfect tense**.
- Past perfect tense expresses **an action which has been completed a long time ago in the past**.

- The structure of past perfect tense is as follows:-
 - **Subject + had + V₃ + Object**
- For Example - He **had played** in the evening.

Therefore, the correct sentence is *Winds blowing northwards has taken our kite to a vertiginous height.*

5. Answer: a

Explanation:

Here the correct answer is **Profligate**.

★ Key Points

:-

- Let's look at the **meaning** of the correct answer:-
 - **Profligate** (*adjective*) - recklessly extravagant or wasteful in the use of resources.
 - For Example - He succumbed to drink and a **profligate** lifestyle.
 - Synonyms - Wasteful, extravagant, spendthrift, improvident.
 - Antonyms - Thrifty, frugal.
- Let's look at the **meaning** of the other options:-

WORD	MEANING
Churlish (<i>adjective</i>)	rude; ill-mannered.
Harpy (<i>noun</i>)	a grasping, unpleasant woman.
Hoarder (<i>noun</i>)	a person who collects things.

Therefore, the correct one word for the given descriptive sentence is *Profligate*.

6. Answer: b

Explanation:

Here the correct answer is **Galling**.

★ Key Points

:-

- Let's look at the **meaning** of the correct answer:-
 - Galling** (adjective) - causing annoyance or resentment; annoying.
 - For Example - It would be **galling** to lose your job because of a dispute with a customer.
 - Synonyms - annoying, irritating, vexing, vexatious
 - Antonyms - pleasing, delightful
- Let's look at the **meaning** of the other options:-

WORD	MEANING
Congenial (adjective)	(of a person) pleasing or liked on account of having qualities or interests that are similar to one's own.
Amiable (adjective)	friendly.
Mellow (adjective)	pleasantly smooth or soft; free from harshness.

Therefore, the correct one word for the given words/descriptive sentence is **Galling**.

7. Answer: a

Explanation:

Here the correct answer is **A passenger who gives unwanted and/or unneeded directions to the driver.**

★ Key Points

:-

- Let's look at the **meaning** of the given idiom/phrase:-
 - **Back seat driver** - a passenger in a car who gives the driver unwanted advice or a person who is eager to give advice about something for which they are not responsible.
 - For Example - Daisy is such a **backseat driver**, she needs to stop interfering - no one asked for her advice.

Therefore, the correct meaning of the given idiom/phrase is *A passenger who gives unwanted and/or unneeded directions to the driver.*

8. Answer: b

Explanation:

Here the correct answer is **You shouldn't prejudge the value of something, by its outward appearance alone.**

★ Key Points

:-

- Let's look at the **meaning** of the given idiom/phrase:-
 - **Can't judge a book by its cover** - One shouldn't prejudge the worth or value of something by its outward appearance alone.
 - For example - That man may look very small and insignificant, but **don't judge a book by its cover** - he's a very powerful man in his circle.

Therefore, the correct meaning of the given idiom/phrase is *You shouldn't prejudge the value of something, by its outward appearance alone.*

9. Answer: c

Explanation:

Here the correct answer is **Appreciation** .

★ Key Points

:-

- In the above given sentence, '**appreciation**' will be used.
- It is so because since '**fuller**' is an **adjective** , therefore, the blank must contain a **noun** .
- Out of the given options, only '**appreciation**' and 'appreciator 'are nouns.
- Appreciator means **a person who appreciates and recognizes the full worth of something which does not fit in the context.**
- '**Appreciate**' and '**appreciates**' are verb.
- **Appreciation** (*noun*) - *recognition and enjoyment of the good qualities of someone or something.*
 - For Example - I smiled in **appreciation** .

Therefore, the correct answer for the blank will be **Appreciation** .

10. Answer: a

Explanation:

Here the correct answer is **Although** .

★ Key Points

:-

- In the above given sentence, '**although**' will be used.
- It is so because the sentence aims to say that **even though** those people have never experienced, they still have a desire.

- **Although**(*conjunction*) – despite the fact that:
 - For Example – She walked home by herself, **although** she knew it was dangerous.

Therefore, the correct word for the blank is *Although* .

11. Answer: c

Explanation:

Here the correct answer is **Suggest** .

★ Key Points:-

- In the above given blank, '**suggest**' will be used.
- It is so because vaguely is an adverb.
- Therefore, a verb must fill the blank.
- '**Suggestion**' is a noun so it cannot be used.
- We can rule out *suggested* because *c an being a modal verb only* uses simple present tense.
- We can rule out Option 4 *i.e. suggests* because the noun(i.e. words) is plural.
- Thus, a plural verb needs to be used. (**Suggests is singular**)

Therefore, the correct word for the blank is *Suggest* .

12. Answer: d

Explanation:

Here the correct answer is **With** .

★ Key Points

:-

- In the above given blank. '**with**' will be used.

- It is so because '**deal with**' is a *phrasal verb* which means **address; cover** or **to be about a particular subject**.
 - For Example – The program **dealt with** teenage pregnancy.

Therefore, the correct word for the blank is *With* .

13. Answer: b

Explanation:

Here the correct answer is **To** .

★ Key Points

:-

- In the above given blank, '**to**' will be used.
- It is so because '**Be confined to something/somebody**' is a *phrasal verb* meaning **to only exist in a particular area or group of people**.
 - For Example – The flooding was **confined to** the basement.

Therefore, the correct answer for the blank is *To* .

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14. Answer: a

Explanation:

Here the correct answer is **Immediately** .

★ Key Points

:-

- Let's look at the **correct spelling** and **meaning** of the given word:-
- **Immediately** (*adverb*) – now or without waiting or thinking about something:
- For Examples:-

- You have to come home **immediately** .
- The cause of the problem wasn't **immediately** obvious.

Therefore, the correct spelling of the given word is *Immediately* .

15. Answer: d

Explanation:

Here the correct answer is **Jane asked her father to cheer up as she would go and get work somewhere** .

★ Key Points

:-

- The given sentence is in the **simple future tense** (*will go*).
- In the indirect speech, '**will**' changes to '**would**' .
- Let's look at the steps for changing the sentence from direct to indirect speech:
 - As the reporting verb is in the **past tense** and direct speech is in the **simple future tense** , we will take the following steps:-
 - The reporting verb '**said**' is changed to '**asked**' because the girl is asking her father to cheer up.
 - The conjunction 'that' is used in place of the comma and the inverted comma are removed.
 - The pronoun 'I' is changed to 'she' as the first person changes according to subject.

Therefore, the correct indirect speech is *Jane asked her father to cheer up as she would go and get work somewhere*.

★ Additional Information

The following table will enable us to know how tense changes in indirect speech:-

Direct Speech	Indirect Speech
Simple Present (<i>Subject + V 1 + Object</i>)	Simple Past (<i>Subject + V 2 + Object</i>)
Present Continuous (<i>Subject + is/am/are + V 1 + ing + Object</i>)	Past Continuous (<i>Subject + was/were + V 1 + ing + Object</i>)
Present Perfect (<i>Subject + has/have + V 3 + Object</i>)	Past Perfect (<i>Subject + had + V 3 + Object</i>)
Simple Past (<i>Subject + V 2 + Object</i>)	Past Perfect (<i>Subject + had + V 3 + Object</i>)
Past Continuous (<i>Subject + was/were + V 1 + ing + Object</i>)	Past Perfect Continuous (<i>Subject + had been + V 1 + ing + Object</i>)
Simple Future (<i>Subject + will/shall + V 1 + Object</i>)	Present Conditional (<i>Subject + would + V 1 + Object</i>)
Future Continuous (<i>Subject + will/shall + V 1 + ing + Object</i>)	Conditional Continuous (<i>Subject + would + be + V 1 + ing + Object</i>)

16. Answer: b

Explanation:

Here the correct answer is **The Red Fort was built by Shah Jahan.**

★ Key Points

:-

- The given sentence (**active voice**) is in the **simple past tense (built)** .
- The passive voice will be:-
- **was/were + past participle of build(built) + by.**
- Whenever an active voice is in simple past tense, it is changed into passive voice according to the following structure:-

- Active Voice – **did+ V₁ or V₂**
- Passive voice – **was/were + V₃**
- **For Example:-**
 - Active Voice – Shah Jahan built the Moti Masjid.
 - Passive Voice – Moti Masjid was built by Shah Jahan.

Therefore, the correct passive voice of the given active voice is *The Red Fort was built by Shah Jahan.*

★ Additional Information

- When we convert active voice to passive voice, three things need to be kept in mind :-
 - Change object into subject .
 - Change subject into object .
 - Always use third form of verb in passive voice.
 - Use 'by' before the new object.

17. Answer: c

Explanation:

Here the correct answer is RPQ.

★ Key Points

:-

- Q starts with **must acquire** . Acquire means to buy or obtain.
- Who buys stuff?
- A person or human being.
- Clearly, the verb of **must acquire** must have a doer associated with it, which can only be **person** in the given case.
- Thus, Q must immediately follow P.
- Option 3 shows this sequence.

Therefore, the correct sentence is *The art of letter-writing is not merely an ornamental accomplishment, but something that every educated person must acquire for practical purposes.*

18. Answer: c

Explanation:

Here the correct answer is **Moderate**.

★ Key Points

:-

- Let's look at the **meaning** of the given word:-
 - **Grandiose** (*adjective*) - **grand in style; magnificent.**
 - For Example - He had grandiose plans to reform the world.
 - Synonyms - magnificent, grand, impressive, imposing
 - Antonyms - unimpressive, humble, moderate.
- Let's look at the **meaning** of the correct answer:-
 - **Moderate** (*adjective*) - **average in amount, intensity, quality, or degree.**
 - For Example - We walked at a moderate pace.
 - Synonyms - average, medium, middling, modest
 - Antonyms - great, massive, outrageous, unreasonable
- Let's look at the **meaning** of the other options:-

WORD	MEANING
Noble (<i>adjective</i>)	kind; generous.
Impressive (<i>adjective</i>)	evoking admiration through size, quality, or skill; grand, imposing, or awesome.
Vast (<i>adjective</i>)	large.

Therefore, the correct antonym of the given word is *Moderate*.

19. Answer: d

Explanation:

Here the correct answer is **Timid**.

★ Key Points

- Let's look at the **meaning** of the given word:-
 - **Officious** (*adjective*) - **assertive of authority in a domineering way, especially with regard to trivial matters.** (दबंग तरीके से अधिकार का मुखर होना, विशेष रूप से तुच्छ मामलों के संबंध में)
 - **For Example** - *The security people were very **officious**.*
 - **Synonyms** - bossy, busy, obtrusive, intrusive
 - **Antonyms** - timid, meek, humble, self-effacing
- Let's look at the **meaning** of the correct answer:-
 - **Timid** (*adjective*) - **showing a lack of courage or confidence; easily frightened.** (साहस या आत्मविश्वास की कमी दिखाना; आसानी से भयभीत)
 - **For Example** - *I was too **timid** to ask for what I wanted.*
 - **Synonyms** - fearful, apprehensive, scared, afraid
 - **Antonyms** - bossy, rude, obtrusive, intrusive
- Let's look at the **meaning** of the other options:-

WORD	MEANING
Busy (<i>adjective</i>)	having a great deal to do (बहुत कुछ करना है)
Intrusive (<i>adjective</i>)	causing disruption or annoyance through being unwelcome or uninvited. (अवांछित या बिन बुलाए होने के कारण व्यवधान या झुंझलाहट पैदा करना।)
Rude (<i>adjective</i>)	offensively impolite or bad-mannered. (आक्रामक रूप से अभद्र या बुरे आचरण वाला।)

Therefore, the correct antonym of the given word is *Timid*.

20. Answer: d

Explanation:

Here the correct answer is **Choice** .

★ Key Points

:-

- Let's look at the **meaning** of the given word:-
 - **Volition**(*noun*) - the faculty or power of using one's will.
 - For Example - Without conscious volition she backed into her office.
 - Synonyms - choice, desire, accord, option
 - Antonyms - aversion, antagonism, dislike, hate
- Let's look at the **meaning** of the correct answer:-
 - **Choice**(*noun*) - an act of choosing between two or more possibilities.
 - For Example - I had to do it, I had no choice.
 - Synonyms - option, alternative, possibility, answer
 - Antonyms - compulsion, necessity, rejection, refusal
- Let's look at the **meaning** of the other options:-

WORD	MEANING
Dependence (<i>noun</i>)	the state of relying on or being controlled by someone or something else.
Violence (<i>noun</i>)	behaviour involving physical force intended to hurt, damage, or kill someone or something.
Villainy (<i>noun</i>)	wicked or criminal behaviour.

Therefore, the correct synonym of the given word is **Choice** .

21. Answer: b

Explanation:

Here the correct answer is **Insurmountable**.

★ Key Points

:-

- Let's look at the **meaning** of the given word:-
 - **Insuperable** (*adjective*) - (of a difficulty or obstacle) impossible to overcome.
 - For Example - This task was destined to prove one of almost **insuperable** difficulty.
 - Synonyms - invincible, insurmountable, unconquerable, unassailable
 - Antonyms - surmountable, conquerable, assailable.
- Let's look at the **meaning** of the correct answer:-
 - **Insurmountable** (*adjective*) - too great to be overcome.
 - For Example - It was an insurmountable problem.
 - Synonyms - hopeless, impossible, overwhelming, unassailable
 - Antonyms - surmountable, conquerable, possible, hopeful
- Let's look at the **meaning** of the other options:-

WORD	MEANING
Weak(<i>adjective</i>)	lacking the power to perform physically demanding tasks; having little physical strength or energy.
Beatable(<i>adjective</i>)	able to be defeated in a game or other competitive situation.
Unstable(<i>adjective</i>)	likely to give way; not stable.

Therefore, the correct synonym of the given word is **Insurmountable**.

22. Answer: b

Explanation:

Here the correct answer is **Irreconcilable**.

★ Key Points

:-

- In the above given sentence, '**irreconcilable**' will be used.
- It is so because Mediate means to moderate or bring an agreement in a dispute.
- Agreement can only come between two people who **are in dispute** .
- *Thus, Irreconcilable meaning incompatible; conflicting; disagreeing is the apt word for the blank.*

Therefore, the correct sentence is *The power of silence is in its ability to mediate the irreconcilable .*

★ Additional Information

- Let's look at the **meaning** of the other options:-

WORD	MEANING
Excitable (<i>adjective</i>)	responding too readily to something new or stimulating; easily excited.
Excusable (<i>adjective</i>)	able to be justified or forgiven; forgivable.
Fashionable (<i>adjective</i>)	characteristic of, influenced by, or representing a current popular style.

23. Answer: a

Explanation:

Here the correct answer is **Again** .

★ Key Points

:-

- In the above given sentence, '**again**' will be used.
- It is so because the other options do not fit in the context.
- '**Again**' is an adverb another time; once more.
 - For Example – It was great to meet old friends **again**.
- '**Besides**' means **in addition to** .
 - For Example –I dislike fishing; **besides** , I don't even own a boat.
- '**Anew**' means in a new or different and typically more positive way.
 - For Example – He demonstrated **anew** that he's not a good leader.
- '**Nevermore**' = at no future time; never again.
 - For Example – All were sure that Alice **nevermore** would be troubled by Paul Lanier.
- Note that nevermore is a negative adverb, but the sentence already uses **did not** so it is ruled out.

Therefore, the correct sentence is *The lecturer did not see her **again** .*

24. Answer: c

Explanation:

Here the correct answer is **3**.

★ Key Points

:-

- In the above given sentence, the error is in **part 3** .
- It is so because 'a' will be replaced by '**the**' .
- '**Only gem**' indicates that the given noun is special and unique i.e. **it is definite**.
- Thus, the definite article i.e. '**the**' will be used in place of the indefinite article i.e. 'a'.
- Definite article 'the' is used **when the noun with which it is used is a particular one, which is identifiable to the listener**.

- It may also be used for a noun that has already been mentioned or is uniquely specified.
 - For Example – This is **the** girl who sings.
- In the above sentence, **the girl has been specified to be the one who sings.**
- Thus, 'a' will be replaced by 'the'.

Therefore, the correct sentence is *You'll spend most of your time gazing in awe at the Kailash temple, but that isn't the only gem that Ellora has to offer.*

★ Additional Information

- **Indefinite articles** i.e. 'a' and 'an' are used to introduce new concepts(noun phrase) into a discourse.
- These articles are called indefinite because **their usage implies that the thing which is being referred to is nonspecific.**
- For Example – He caught a bird. (**any bird**)
- **Note** – Indefinite articles are generally used before countable 'singular' nouns.

25. Answer: b

Explanation:

Here the correct answer is 2.

★ Key Points

:-

- In the above given sentence, '**award**' will be replaced by '**awards**'.
- It is so because '**All of**' will be followed by a plural noun i.e. **awards**.
- When used in the phrase '**all of**', '**all**' is classified as an indefinite pronoun.
- It is perfectly acceptable to use 'all of' before a noun.
- **For example:-**
 - all of the **men**
 - all of the **students**
- Thus, '**award**' will be replaced by '**awards**'.

Therefore, the correct sentence is *Mark won all of the awards for the categories in which he was nominated.*

26. Answer: c

Explanation:

The Police is related to Criminals, in the same way Doctor is related to Patients.

Hence, "Doctor : Patient" is the related word pair among the given alternatives.

27. Answer: a

Explanation:

As,

$$16 + 5 = 21$$

Similarly,

$$14 + 5 = 19$$

Hence, "14 : 19" is the related number pair among the given alternatives.

28. Answer: c

Explanation:

The logic followed here is

R	O	K
+1	-1	+1
S	N	L

Similarly,

P	A	T
+1	-1	+1
Q	Z	U

Hence, QZU is the correct answer.

29. Answer: c

Explanation:

Cow is an animal. Peacock is a bird. Chair is a furniture. However, Planet is not Venus. The analogy is in reverse order in this pair.

Hence, Planet : Venus is the odd word pair among the given alternatives.

30. Answer: d

Explanation:

The logic followed here is:

$$(11 - 1)^2 = 100$$

$$(13 - 1)^2 = 144$$

$$(19 - 1)^2 = 324$$

$$(17 - 1)^2 = 256 \neq 246$$

Hence, 17 - 246 is the odd number pair among the given alternatives.

31. Answer: c

Explanation:

The logic followed here is:

$$X + 1 = Y; Y + 1 = Z;$$

$$L + 1 = M; M + 1 = N;$$

$$C + 1 = D; D + 1 = E \neq F;$$

$$R + 1 = S; S + 1 = T;$$

Hence, CDF is the odd letters pair among the given alternatives.

32. Answer: d

Explanation:

On arranging word as per dictionary order,

5. **Cac** tus

4. **Cam** el

1. **Camer** a

3. **Can** dle

2. **Candy**

Hence, 54132 is the dictionary order and Candle comes at FOURTH position .

33. Answer: b

Explanation:

$$15 \times 0.5 = 7.5$$

$$7.5 \times 1 = 7.5$$

$$7.5 \times 1.5 = 11.25$$

$$11.25 \times 2 = 22.5$$

$$22.5 \times 2.5 = 56.25$$

Hence, 11.25 is the missing term.

34. Answer: d

Explanation:

The logic followed here is:



Hence, H is the missing term.

35. Answer: a

Explanation:

Present age of Rahul and his brother = 5 : 3 $\rightarrow$ 5x : 3x

After 4 years ratio of Rahul's brother and his sister: 3x + 4 : sister's age :: 5 : 6.

Present age of his sister is 26 years. After 4 years her age will be 30 years

$$\frac{3x+4}{\text{sister's age after 4 years}} = \frac{5}{6}$$

$$\frac{3x+4}{30} = \frac{5}{6} =$$

$$3x + 4 = \frac{5 \times 30}{6} = 25$$

$$3x = 21; x = 7$$

Present age of Rahul = $5x = 5 \times 7 = 35$

After 3 years his age will be $35 + 3 = 38$ years.

Hence, the age (in years) of Rahul 3 years from now will be 38 years.

36. Answer: a

Explanation:

1) Ability → Responsi **bility** : this word cannot be formed as there is no A in Responsibility.

2) Pen → R **es po** nsibility

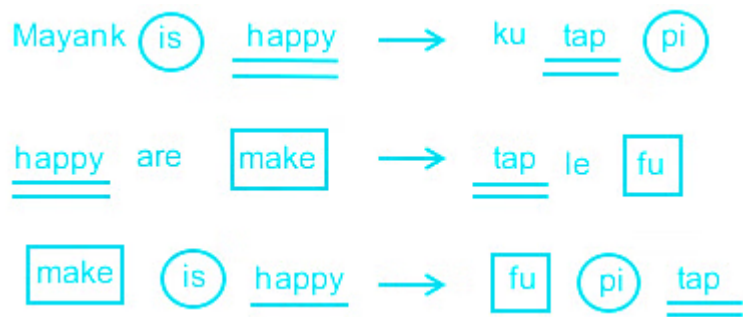
3) Nose → R **esp ons** ibility

4) Possible → R **espo nsib** ility

Hence, "Ability" word cannot be formed from the given word.

37. Answer: a

Explanation:



Hence, Happy will be coded as tap.

38. Answer: c

Explanation:

Changing operations as given format:

Symbol	Meaning
×	-
÷	+
-	×
+	÷

Given expression: $8 \div 2 - 25 + 10 \times 3 = ?$

After changing the symbols: $8 + 2 \times 25 \div 10 - 3 = ?$

$= 8 + 2 \times 2.5 - 3$

$$= \underline{8 + 5} - 3$$

$$= 13 - 3$$

$$= 10$$

Hence 10 is the correct answer.

39. Answer: d

Explanation:

Given expression: $12 + 8 - 25 \div 10 \times 18 = 14$

1) $\div$ and $- \rightarrow 12 + 8 \div 25 - 10 \times 18 = -167.68 \neq 14$

2) $+$ and $\div \rightarrow 12 \div 8 - 25 + 10 \times 18 = 156.5 \neq 14$

3) $-$ and $+$ $\rightarrow 12 - 8 + 25 \div 10 \times 18 = 49 \neq 14$

4) $\times$ and $- \rightarrow 12 + 8 \times 25 \div 10 - 18 = 14$

Hence, " $\times$ and $-$ " should be interchanged to correct the equation.

40. Answer: b

Explanation:

In 2 % 1,

$$(2 + 1) \times 10 = 3 \times 10 = 30$$

$$6 \% 2 = 80; (6 + 2) \times 10 = 8 \times 10 = 80$$

$$2 \% 5 = 70; (2 + 5) \times 10 = 7 \times 10 = 70$$

Similarly, in 4 % 1,

$$4 \% 1 = (4 + 1) \times 10 = 5 \times 10 = 50$$

Hence, 50 is the correct answer.

41. Answer: a

Explanation:

Q	P	Q	P	Q	<u>R</u>	P	Q	P
Q	P	Q	P	<u>R</u>	Q	P	Q	P
Q	P	Q	<u>R</u>	P	Q	P	Q	P
Q	P	<u>R</u>	Q	P	Q	P	Q	P
Q	<u>R</u>	P	Q	P	Q	P	Q	P
<u>R</u>	Q	P	Q	P	Q	P	Q	P

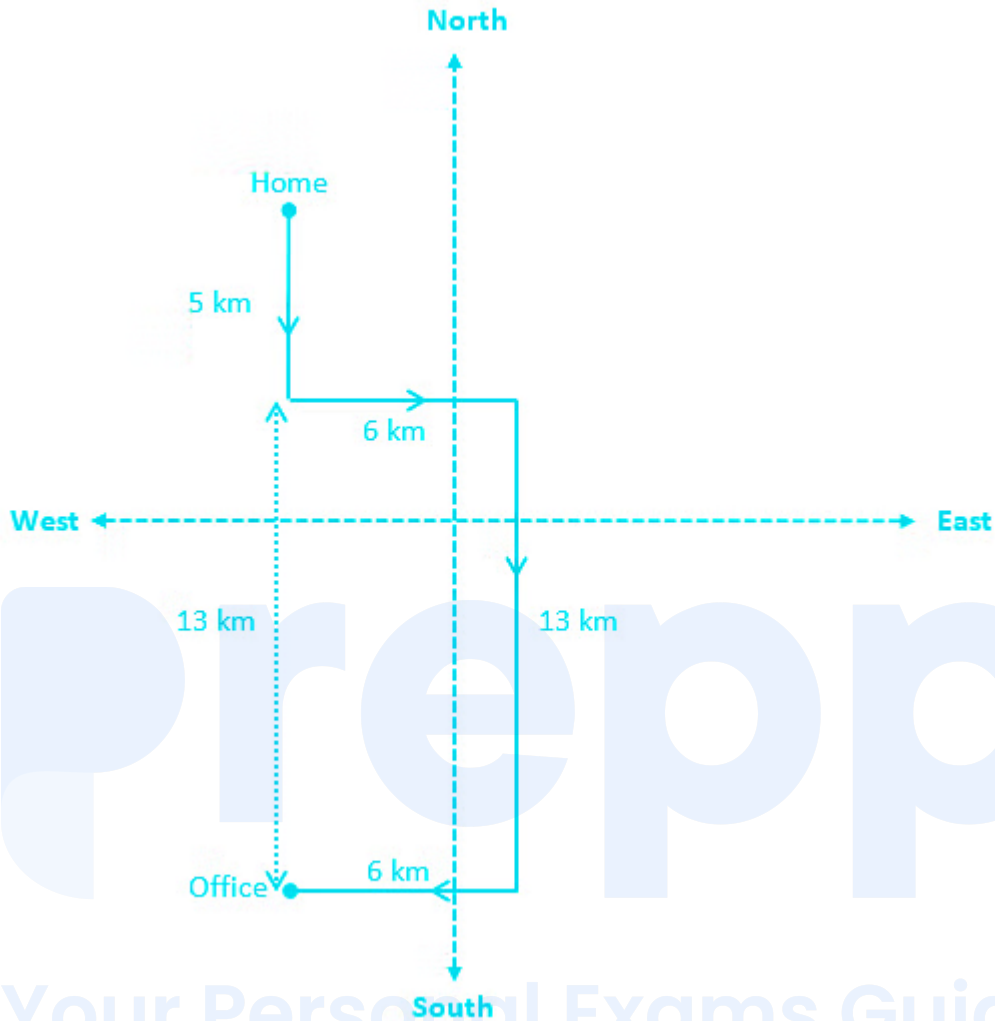
Here in the 1st term R shift by 1 position in left direction.

Hence the next term will be "RQPQPQPQ".

42. Answer: b

Explanation:

The man's movement can be mapped as follows:

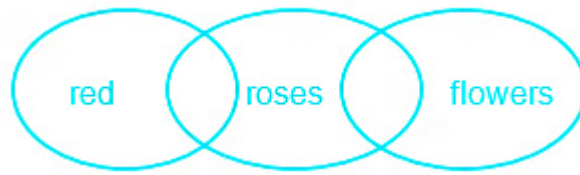


Hence, his office is 18 Km in the South Direction with reference to his home.

43. Answer: d

Explanation:

The least possible Venn diagram is as follows:



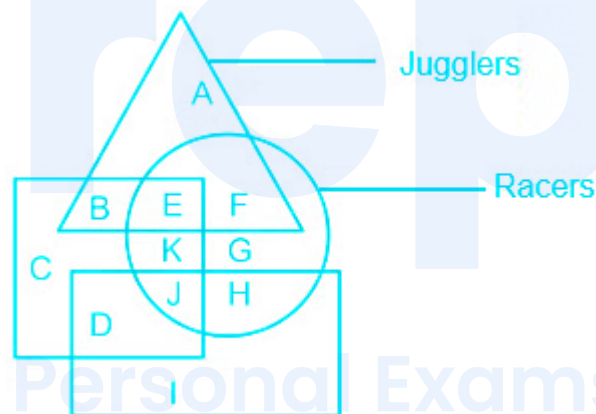
Conclusion I: Some flowers are red $\rightarrow$ False (It is possible but not definite)

Conclusion II: All red are flowers $\rightarrow$ False (It is possible but not definite)

Hence, neither conclusion I nor conclusion II follows

44. Answer: b

Explanation:



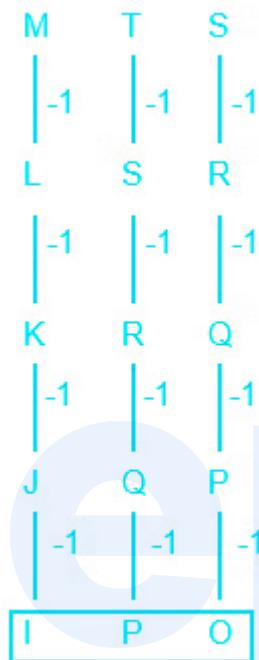
Here, the set of letters that represent Racers who are not Jugglers is KGJH.

Hence, KGJH is the correct answer.

45. Answer: d

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



Hence, the correct answer is IPO.

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46. Answer: a

Explanation:

Here the logic followed is :

$$113 + 3 = 116;$$

$$116 + 3 = 119;$$

$$119 + 3 = 122;$$

$$122 + 3 = 125;$$

$$125 + 3 = 128.$$

Hence, 128 is the missing term .

47. Answer: d

Explanation:

$$1) (31, 33, 35) \rightarrow 31 + 2 = 33; 33 + 2 = 35$$

$$2) (41, 43, 45) \rightarrow 41 + 2 = 43; 43 + 2 = 45$$

$$3) (43, 45, 47) \rightarrow 43 + 2 = 45; 45 + 2 = 47$$

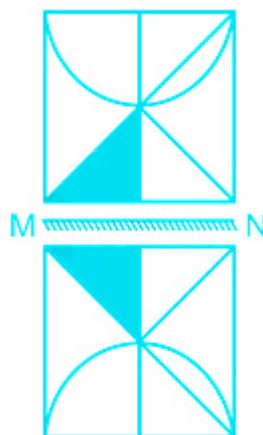
$$4) (33, 37, 39) \rightarrow 33 + 2 = 35 \neq 37; 37 + 2 = 39$$

Hence, (33, 37, 39) is the odd one out from the given alternatives.

48. Answer: c

Explanation:

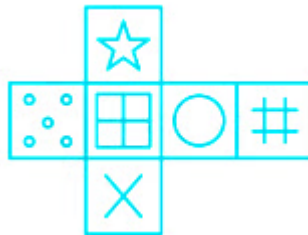
When the question figure is flipped vertically following figure will be formed.



Hence, the figure given above is the correct answer.

49. Answer: d

Explanation:



- 1) The face of the dice with five dot will be opposite to the face of dice with a circle.
- 2) The face of the dice with X will be opposite to the face of dice with *.
- 3) The face of the dice with four square will be opposite to the face of dice with #.



In the above figure, the top surface of the cube (with a circle) is adjacent to the side having five dots, which is not possible. Hence, the above figure cannot be formed.

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50. Answer: c

Explanation:

- 1) 12, 88, 41, 85 → F N A Q
- 2) 41, 76, 31, 79 → A W H T
- 3) 30, 14, 75, 76 → G L O W
- 4) 32, 85, 33, 57 → I Q M T

Hence, "30, 14, 75, 76" is the correct answer.

51. Answer: a

Explanation:

$$\begin{aligned} & \left[7 \left(64^{\frac{1}{3}} + 27^{\frac{1}{3}} \right)^3 \right]^{\frac{1}{4}} \\ \Rightarrow & \left[7(4 + 3)^3 \right]^{\frac{1}{4}} \\ \Rightarrow & \left[7(7)^3 \right]^{\frac{1}{4}} \\ \Rightarrow & \left[(7)^4 \right]^{\frac{1}{4}} \\ \Rightarrow & 7^4 \times \frac{1}{4} \\ \Rightarrow & 7 \end{aligned}$$

52. Answer: d

Explanation:

Concept used

$$a.\bar{b} = a.bbbbbbb$$

$$a.0\bar{b} = a.0bbbb$$

Calculation

$$0.7$$

$$0.\bar{7} = 0.77777 \dots$$

$$0.0\bar{7} = 0.077777 \dots$$

$$0.\overline{07} = 0.070707\dots$$

Now, $0.7777\dots$ or $0.\overline{7}$ is largest among all.

53. Answer: d

Explanation:

$$\text{If } a_n = \frac{1}{n+1} + 1, \text{ then } a_1 + a_3 + a_5 = ?$$

Put $a = 1$, then

$$\Rightarrow a_1 = 1/(1+1) + 1 = 1/2 + 1 = 3/2$$

$$\text{Similarly, } a_3 = 1/(3+1) + 1 = 1/4 + 1 = 5/4$$

$$\Rightarrow a_5 = 1/(5+1) + 1 = 1/6 + 1 = 7/6$$

$$\therefore a_1 + a_3 + a_5 = 3/2 + 5/4 + 7/6 = 47/12$$

54. Answer: c

Explanation:

$$\text{If } p \& q = p^2 + 4pq - q^2$$

Put the value $p = 3$ and $q = 6$

$$\Rightarrow 3 \& 6 = 3^2 + 4 \times 3 \times 6 - 6^2 = 9 + 72 - 36 = 45$$

Similarly, we put $p = 4$ and $q = 5$

$$\Rightarrow 4 \& 5 = 4^2 + 4 \times 4 \times 5 - 5^2 = 16 + 80 - 25 = 71$$

$$\therefore (3 \& 6) + (4 \& 5) = 45 + 71 = 116$$

55. Answer: c

Explanation:

AT = 6 cm, AB = 10 cm & TB = ?

$\therefore TB \perp AT$

In right angled $\triangle ATB$

By Pythagoras theorem

$$(AB)^2 = (AT)^2 + (TB)^2$$

$$\Rightarrow (10)^2 = 6^2 + (TB)^2$$

$$\Rightarrow TB = 8$$

Radius (r) of the circle is TB = 8 cm

We know diameter is the largest chord of the circle

Therefore, $d = 2r = 2 \times 8 = 16$

56. Answer: c

Explanation:

Base of the right angled triangle = 12

Perpendicular of the right-angled triangle = 5

By Pythagoras theorem

Hypotenuse of the right-angled triangle = 13

We know, circum-radius of right angled triangle = $\frac{1}{2} \times \text{hypotenuse}$

$\therefore$ Circum-radius of right angled triangle = $\frac{1}{2} \times 13 = 6.5 \text{ cm}$

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57. Answer: d

Explanation:

Given:

The price of sugar is decreased by 18%, then a person can buy 16.2 kg sugar more for Rs. 4500

Formula used:

If the price of an article is reduced by $x\%$ and buyer get z kg more for some Rs y , then the new price per kg of article = $xy/(100 \times z)$

Calculation:

So, $x = 18\%$, $y = 4500$, & $z = 16.2$ kg

$$\therefore \text{New price per kg} = xy/(100 \times z) = (18 \times 4500)/(100 \times 16.2) = 50$$

58. Answer: a

Explanation:

Let income of P, Q & R are $5x$, $4x$ and $3x$ respectively and their expenses are $6y$, $5y$ and $4y$ respectively.

Income of P = 10,000 (given)

$$\Rightarrow 5x = 10,000$$

$$\Rightarrow x = 2,000$$

According to the question

$$\Rightarrow 5x - 6y = 4,000$$

$$\Rightarrow 10,000 - 6y = 4,000$$

$$\Rightarrow 6y = 6,000$$

$$\Rightarrow y = 1,000$$

$$\text{Saving of the Q} = \text{Income of Q} - \text{expenses of Q} = 4 \times 2000 - 5 \times 1000 = 8000 - 5000 = 3000$$

$\therefore$ Saving of the Q is Rs. 3,000

59. Answer: b

Explanation:

Ratio of zinc and aluminium in alloy X = 1 : 4 = 5 unit

Ratio of zinc and aluminium in alloy Y = 11 : 8 = 19 unit

We have to equal quantities

Ratio of zinc and aluminium in alloy X = 1 : 4 = 5 $\times$ 19

Ratio of zinc and aluminium in alloy Y = 11 : 8 = 19 $\times$ 5

New ratio of zinc and aluminium in alloy X = 19 : 76 = 95 unit

New ratio of zinc and aluminium in alloy Y = 55 : 40 = 95 unit

$\therefore$ Ratio of zinc and aluminium in alloy Z = (19 + 55) : (76 + 40) = 74 : 116 = 37 : 58

60. Answer: a

Explanation:

Prime numbers before 19 = 17, 13, 11, 7, 5, 3, 2

We know, Average = sum of all the number / total number

$$\therefore \text{Average} = (17 + 13 + 11 + 7 + 5 + 3 + 2) / 7 = 58 / 7 = 8.28$$

61. Answer: c

Explanation:

Given simple interest on a sum of money is $16/25$ of the principal

Let the Principal be P

$$\Rightarrow r = t \text{ (given)}$$

$$\Rightarrow SI = (P \times r \times t)/100$$

$$\Rightarrow 16P/25 = (P \times r \times r)/100$$

$$\therefore r = 4/5 \times 10 = 8\%$$

62. Answer: c

Explanation:

Rajan purchase 21 pens for Rs. 20

CP of the 21 pens = Rs. 20

CP of the 1 pen = Rs. $20/21$

Rajan sell 20 pens for Rs 21

SP of the 1 pen = $21/20$

We know, profit = SP – CP

So, Profit = $21/20 - 20/21 = 41/420$

We know, profit % = Profit/CP $\times 100$

$$\therefore \text{Profit \%} = \frac{\frac{41}{420}}{\frac{20}{21}} \times 100 = \frac{41}{420} \times \frac{21}{20} \times 100 = 10.25\%$$

63. Answer: a

Explanation:

Given:

The successive discount are 20%, 20% and 10%.

Formula:

$$\text{Successive discount} = X + Y - (XY)/100$$

Where,

X = First discount

Y = Second discount

Calculation:

$$\text{Successive discount} = X + Y - (XY)/100$$

$$\Rightarrow 20 + 20 - 400/100$$

$$\Rightarrow 36\%$$

Now, again

$$\text{Successive discount} = X + Y - (XY)/100$$

$$X = 36\%, Y = 10\%$$

$$\Rightarrow 36 + 10 - (36 \times 10)/100$$

$$\Rightarrow 46 - 3.6$$

$$\Rightarrow 42.4\%$$

$\therefore$ The single equivalent discount is 42.4%.

★ Alternate Method

Let MP of the book be 100

$$\text{SP after discount} = 100 \times \frac{100-20}{100} \times \frac{100-20}{100} \times \frac{100-10}{100} = 100 \times \frac{80}{100} \times \frac{80}{100} \times \frac{90}{100} = 57.6$$

We know, discount = MP – SP

$$\text{So, net discount} = 100 - 57.6 = 42.4$$

$$\therefore \text{Discount \%} = 42.4/100 \times 100 = 42.4\%$$

64. Answer: c

Explanation:

$$\begin{aligned} & \sqrt[3]{512} + \sqrt{169} + \sqrt[3]{216} + \sqrt{225} \\ \Rightarrow & \sqrt[3]{8 \times 8 \times 8} + \sqrt{13 \times 13} + \sqrt[3]{6 \times 6 \times 6} + \sqrt{15 \times 15} \\ \Rightarrow & 8 + 13 + 6 + 15 = 42 \end{aligned}$$

65. Answer: c

Explanation:

The ratio of time (Rashika : Rashmi) = 5 : 7

We know that efficiency is inversely proportional to the time.

Therefore, the ratio of the efficiency (Rashika : Rashmi) = 7 : 5

Short Trick:

Let the efficiency of Rashika be 7x.

⇒ The share of Rashika must be a multiple of 7.

∴ The only possible answer will be 140.

Detailed solution:

They get their wages according to their efficiency.

So, total efficiency = 12

$\Rightarrow 12 \text{ unit} = 240$

$\Rightarrow 1 \text{ unit} = 20$

$\Rightarrow 7 \text{ unit} = 7 \times 20 = 140$ (because efficiency of Rashika is 7)

$\therefore$ The share of Rashika is 140.

66. Answer: b

Explanation:

Given:-

(1) $\frac{1}{3}$ part of a certain journey is covered at the speed of 25 km/hr

(2) $\frac{1}{2}$ part of the journey is covered at the speed of 45 km/hr

(3) the remaining part is covered with a speed of 37.5 km/hr.

Formula used:-

(1) Time = distance/speed

(2) Average speed = total distance/total time

Calculation:-

Let total part of journey = 6 km (LCM of 2 & 3)

($\frac{1}{3}$ part of 6) 2 km covered with the speed = 25 km/hr

We know, time = distance/speed

Time is taken to cover 2 km = $\frac{2}{25}$

($\frac{1}{2}$ part of 6) 3 km covered with the speed = 45 km/h

Similarly, time = $\frac{3}{45}$

Remaining part = $6 - 2 - 3 = 1$

1 km covered with the speed = 37.5 km/h

Similarly, time = $1/37.5$

We know, average speed = total distance/total time

$$\therefore \text{Average speed} = \frac{6}{\frac{2}{25} + \frac{3}{45} + \frac{1}{37.5}} = \frac{6 \times 75}{6 + 5 + 2} = \frac{450}{13} = 34.61 \text{ km/hr}$$

$\therefore$ The required answer is 34.61.

67. Answer: d

Explanation:

Sector F (65) has made the second highest contribution.

68. Answer: c

Explanation:

Total GDP of the country = A + B + C + D + E + F + G = 100 + 40 + 60 + 30 + 40 + 65 + 25 = 360

So, total GDP is 360 \$ millions.

69. Answer: a

Explanation:

We know total GDP of the country = 360

360 unit represent = 360°

And GDP of the sector D is = 30

$$\therefore 30 \text{ unit represent} = 30/360 \times 360^\circ = 30^\circ$$

70. Answer: a

Explanation:

Sectors A, B and C grew by 9% and sectors D, E, F and G grew by 3%.

$$\text{So, Increase in GDP of sectors A, B and C} = (A + B + C) \times 9\% = (100 + 40 + 60) \times 9/100 = 18$$

$$\text{Similarly increase in GDP of sectors D, E, F \& G} = (D + E + F + G) \times 3\%$$

$$\Rightarrow (30 + 40 + 65 + 25) \times 3/100 = 4.8$$

$$\text{So overall growth} = 18 + 4.8 = 22.8$$

$$\text{Total GDP before growth} = 360$$

$$\text{So, overall growth \%} = 22.8/360 \times 100 = 6.33\%$$

71. Answer: c

Explanation:

Given:-

The area of a square is 30.25 cm².

Formula used:-

$$(1) \text{ Area of a square} = a^2$$

$$(2) \text{ Perimeter of a square} = 4a$$

Calculation:-

$$\text{We know, the area of a square} = a^2$$

$$\Rightarrow a^2 = 30.25$$

$$\Rightarrow a = 5.5$$

$\therefore$ Perimeter of a square = $4a = 4 \times 5.5 = 22$

$\therefore$ The required answer is 22.

72. Answer: c

Explanation:

We know, circumference of a circle = $2\pi r$

$$\Rightarrow 2\pi r = 110$$

$$\Rightarrow 2 \times \frac{22}{7} \times r = 110$$

$$\therefore r = 17.5 \text{ cm}$$

73. Answer: d

Explanation:

Diameter = 28 & height = 12

$$\text{So, } r = 28/2 = 14$$

We know, total surface area of a right circular cylinder of diameter = $2\pi r(r + h)$

$$\therefore \text{Total surface area of right circular cylinder} = 2 \times \frac{22}{7} \times 14 \times (14 + 12) = 2288 \text{ cm}^2$$

74. Answer: c

Explanation:

Concept used:

	0°	30°	45°	60°	90°
sin	0	1/2	1/√2	√3/2	1
cos	1	√3/2	1/√2	1/2	0
tan	0	1/√3	1	√3	∞
cosec	∞	2	√2	2/√3	1
sec	1	2/√3	√2	2	∞
cot	∞	√3	1	1/√3	0

Calculation:

$$(\cos 30^\circ + 1/2) = \sqrt{3}/2 + 1/2 = (\sqrt{3} + 1)/2$$

75. Answer: a

Explanation:

If $\operatorname{cosec} D = 5/4$

$\operatorname{cosec} D = \text{hypotenuse/perpendicular} = 5/4$

$FD = 5k$ & $EF = 4k$

In $\triangle DEF$

By Pythagoras theorem

$$\Rightarrow (FD)^2 = (EF)^2 + (ED)^2$$

$$\Rightarrow 5k^2 = 4k^2 + (ED)^2$$

$$\Rightarrow ED = 3k$$

$$\therefore \operatorname{cosec} F = \text{hypotenuse/perpendicular} = 5/3$$

76. Answer: a

Explanation:

The correct answer is option 1, i.e. the difference between the poverty line and actual income level of all those living below that line

- The **poverty gap** calculates the **intensity of poverty** . It reflects the extent to which people on **average fall under the poverty line** .
- The theory of poverty gap was created by **the World Bank** and is largely used to estimate the **incidence of poverty** in different nations worldwide.
- The **higher poverty gap reflects a lower level of deprivation** and a **higher incidence of poverty** for those who are below the poverty line. In effect, the government has to provide more income to take them above the poverty line.

•

Country	Poverty Gap (%)
India	4.8
Indonesia	2.7
Brazil	2.1
Pakistan	1.9
China	1.3
Malaysia	0.5
Nigeria	27.5

77. Answer: d

Explanation:

The correct answer is option 4 i.e Eighth

Eighth Five Year Plan (1992 – 1997) adopted Indicative Planning in India.

- A form of economic planning, Indicative planning is implemented by a state to solve the issue of imperfect information in the market and mixed economies.
- This is done to **increase economic performance**.
- Indicative Planning was first attempted in **France**.
- India's Eighth Five Year Plan mentions that planning would have to be reoriented so as to make it indicative.

78. Answer: b

Explanation:

Burma war is NOT considered for the time being of Viceroy Lord Lytton.

There have been three Burma Wars:

- First Burma War (1824 to 1826)
- Second Burma War (1852 to 1853)
- Third Burma War (1885)

Robert Bulwer Lytton (1831 – 1891), however, served as the Viceroy of India between 1876 – 1880.

79. Answer: d

Explanation:

Chuar Rebellion: 1870 is not correctly matched.

- This Rebellion took place in 1798 – 99 in Midnapore and Bankura districts of West Bengal.
- Increased taxes, Famine, cruel demands and economic suffering due to famines were the main reasons for revolts in that period.
- Chuar was a derogatory word {meaning pig} which was used for local tribals in Bengal.

- Durjan Singh, the leader of this revolt was a displaced Zamindar who with the help of his followers created destruction.
 - He attacked the East India Company and spread his power over 30 villages.
 - With the help of local landlords, the British were able to control the rebellion.
 - Around 200 agitators were executed during the process.
-

80. Answer: c

Explanation:

Fausa Magna is a Rift lowland.

It is a great rift lowland that extends from the Sea of Japan to the Pacific.

81. Answer: c

Explanation:

Nandi Hill is located in Karnataka.

- Nandi Hill is a famous tourist spot located in Chickaballapur district of Karnataka.
 - These hills are the origin of the river Arkavathy.
-

82. Answer: d

Explanation:

- Haribhai Varadkaris is NOT related to ghazal singing.
- Begum Akhtar, who was also given the title of 'Mallika-e-Ghazal', was Indian singer of Ghazal, Dadra, and Thumri.
- Peenaz Masani, who has been awarded the title of 'Shehzad-e-Tarunnam', by the state government of UttarPradesh, is a famous Indian Ghazal singer.

- Malika Pukhraj was a popular Ghazal singer of Pakistan.
-

83. Answer: b

Explanation:

The 10th South Asia Economic Summit (SAES) was held in November 2017 in Kathmandu.

- “Deepening Economic Integration for Inclusive and Sustainable Development in South Asia” was the theme of the Summit.
 - The South Asia Economic Summit (SAES) was started in 2008.
 - The objective of the summit is to bring the stakeholders from research, government, the private sector, etc. to generate creative ideas to be considered by SAARC and region’s policymakers.
-

84. Answer: d

Explanation:

Sterling K. Brown is the first African-American actor to win the Best Actor Award in a Television Drama in the history of Golden Globe.

He got this award at Golden Globe Awards 2018 for his role as Randall Pearson in the drama “This Is Us”.

85. Answer: a

Explanation:

- Bhutan’s national language is known as Dzongkha.
- A Sino-Tibetan language, Dzongkha is spoken by more than half a million people in Bhutan.

- Capital: Thimpu.
- Currency: Ngultrum.

86. Answer: c

Explanation:

Explanation:

Multiplication of equivalent weight and valency of an element is equal to Atomic weight.

In simple language, Equivalent weight is the mass of a compound which can combine with 1g of hydrogen or 8g of oxygen.

Atomic weight $\div$ Valency = Equivalent weight

A atomic weight = Equivalent weight $\times$ Valency

Example:

Atomic weight of Calcium = 40 g and

Valency of Calcium = 2, then,

Equivalent weight of Calcium = Atomic weight of Calcium $\div$ Valency of Calcium = $40 \div 2 = 20$ g.

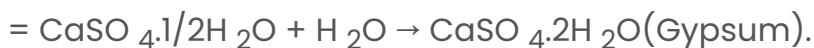
So, 'Atomic weight' is the correct option.

87. Answer: b

Explanation:

- Plaster of Paris changes into gypsum on mixing with water and is used for decoration.

- Plaster of Paris, commonly called as P.O.P is Calcium sulphate hemihydrate.
- The chemical formula of Plaster of Paris is $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$.
- Crystals of gypsum are produced when Plaster of Paris is mixed with water.



88. Answer: a

Explanation:

- If member is absent from all meetings of the house for 60 days continuously, a house can declare the seat of a member vacant.
- Article 101 of the Constitution of India deals with disqualification of members. It lays down several ways in which the seat may become vacant.
- Article 101 (4) provides that the House may declare the seat vacant if the member is absent for a period of sixty days, not counting any period when the House is prorogued or adjourned for four or more consecutive days.

Other cases by the seat of a member can be vacated are:

- If the court declares his Election as void.
- If the house expels him.
- If he becomes the President or Vice - President of the nation.
- If he becomes the Governor of a state.

89. Answer: c

Explanation:

There are usually three Parliamentary sessions in India, viz, the Budget session, the Monsoon session, and the Winter session.

The period during which the Houses - Rajya Sabha and Lok Sabha - meet to conduct its business, is called session.

There are three types of Sessions that are conducted in the Parliament of India:

- Budget session: from February to May.
- Monsoon session: from July to September.
- Winter session: from November to December.

The Constitution empowers the president to summon each House at such intervals that there should not be more than a six-month gap between the two sessions.

90. Answer: c

Explanation:

Bile makes the food coming from stomach alkaline.

Break down of fats into smaller globules.

- The liver secretes Bile. When bile leaves the liver, it gets stored in the gallbladder, before being released into the duodenum.
 - When it gets released from the gallbladder, it breaks large fat globules into smaller particles. This is known as emulsification.
 - As Bile is alkaline in nature, it neutralizes acidic food coming from the stomach to provide the alkaline conditions needed in the small intestine.
-

91. Answer: c

Explanation:

The wing of a bat and the wing of a bird are the examples of Analogous limbs.

Organs having different structure and components but perform similar functions are called Analogous organs.

92. Answer: b

Explanation:

In August 2017, National Highway Authority of India (NHAI) launched two mobile apps named 'My FASTag' and 'FASTag Partner'.

- My FASTag is a customer application that will make it easier for the customer to recharge or purchase FASTags on it.
- FASTag Partner is a merchant application which allows banking partners, Common Services Centre (CSC) and vehicle dealers to sell and register FASTag.

93. Answer: a

Explanation:

The code name of the world's largest amphibious aircraft made by China is Kunlong.

- China has made the world's largest amphibious aircraft named AG 600.
- The plane is code named as Kunlong.
- It has the hull of a flying boat for waterborne operations along with a wheeled retractable undercarriage for alighting on land.
- AG 600 is designed by the Aviation Industry Corporation of China (AVIC).

94. Answer: c

Explanation:

As per the announcement by the government in August 2017, Banks importing gold and precious metals will have to pay 3% tax under the GST.

- Along with the basic customs duty, Integrated-GST is payable on all imports of precious metals.
- GST stands for Goods and Services Tax. It is an indirect tax which is levied in India on the supply of goods and services. It was launched at midnight on 1 July 2017 by the former President of India, PranabMukherjee, and the Government of India.

95. Answer: b

Explanation:

On 3 January 2018, Lok Sabha passed Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017. The Bill empowers Central Government to allow works in a prohibited area.

- The Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017 amends the Ancient Monuments and Archaeological Sites and Remains (AMASR) Act, 1958.
- AMASR Act, 1958 prohibits construction in the 'prohibited areas' even if it is for public purposes. The Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017 amends this provision and permits construction of public works in these particular areas for public purposes.

96. Answer: c

Explanation:

The correct answer is 80 J.

★ **Key Points**

- Given that:
 - Charge = 20 C
 - Potential Difference = 4 V

- work done = charge x potential diff
- $= 4 \times 20$
- $= 80 \text{ J}$
- The work done in passing a charge of 20 C between two points having a potential difference of 4 V will be 80 J.

★ Additional Information

- **Ohm's law** states that the current through a conductor between two points is directly proportional to the voltage or potential difference across the two points.
- $V = IR$
- $R = \frac{V}{I}$
 - V = Voltage
 - I = Current
 - R = Resistance or a constant

97. Answer: a

Explanation:

The magnitude of the gravitational force will be equal to the product of mass and acceleration due to the gravitational force.

- The Universal Law of Gravitation says that – any two objects having mass will attract each other with a force which is directly proportional to the product of their masses.
- This force is also inversely proportional to the square of the distance between their centers.
- Let us understand from the derivation,

According to the Universal law of Gravitation,

$$F = G \frac{m \times M}{r^2} \text{ -----Equation (1)}$$

Here, m is the mass of the object,

and M is the masses of the Earth, which is $6 \times 10^{24} \text{ kg}$

r is the radius of the Earth, which is $6.4 \times 10^6 \text{ m}$

F is the gravitational force acting between them, and

G is the gravitational constant, which is $6.7 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$.

- We know that $F = ma$, where 'a' is the acceleration of the body.-----
Equation (2)
- Equate both the equations,

$$ma = G \frac{m \times M}{r^2}$$

$$a = G \frac{M}{r^2} \text{-----Equation (3)}$$

$$a = \frac{6.7 \times 10^{-11} \times 6 \times 10^{24}}{6.4 \times 10^6}$$

$$a = 9.8 \text{ ms}^{-2}$$

The acceleration 'a' here is nothing but the acceleration due to gravity i.e. g , which is 9.8 ms^{-2}

Hence $F = ma$, can also be written as

$$= mg$$

98. Answer: c

Explanation:

The power of an earthquake is expressed in terms of a magnitude on a scale called the Richter scale.

- Richter scale was developed by Charles F. Richter in 1935.
- The magnitude of the earthquake is found by using the logarithm of the amplitude of the largest seismic wave.
- The logarithmic scale runs from 1 to 9, though no upper limit exists.

- The earthquake of magnitude 7 is 10 times more powerful than the earthquake of magnitude 6.
-

99. Answer: c

Explanation:

- A) Valentino Rossi won the Motorcycle race 2017 Dutch TT MotoGP.
- B) Germany hosted the 2017 AIBA World Boxing Championships.
- C) In 2017 Pro Kabaddi League, Surjeet Singh played for Bengal Warriors.
- An Italian professional motorcycle road racer, Valentino Rossi is also a multiple MotoGP World Champion.
 - The 2017 International Boxing Association (AIBA) AIBA World Boxing Championships was held between 25 August and 2 September.
 - A Kabaddi team based in Kolkata, Bengal Warriors, is currently led by Surjeet Singh.
-

100. Answer: b

Explanation:

The Internet has emerged as a convenient means of global communication, information sharing and services.

- A huge network of millions of computer networks constitutes the Internet. These networks are connected by telephones, underwater cables, and satellites.
- A computer network, also known as a data network, is a telecommunications network which allows computers to exchange its data.