



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 (21-Mar-2018) (Shift 1)

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, some parts 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)

I look up (1)/ after the blast (2)/ of light had enveloped the park. (3)/ No error (4)

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

2. 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)

According to the Copernican principle, the Earth does not (1)/ occupy a unique position in the Universe while (2)/ implies life on other planets can be a possibility. (3)/ No error (4)

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

3. In the following question, the sentence with the blank is 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 _____ age movies are quite popular.

- a. come of
- b. long
- c. coming of
- d. over

-
4. 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 love which is based on physical beauty is not _____.

- a. imminent
- b. deponent
- c. remnant
- d. permanent

-
5. 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)

Mollify

- a. Pacify
- b. Agitate
- c. Provoke
- d. Worry

6. 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)

Importune

- a. Appeal
- b. Important
- c. Imply
- d. Purchase

-
7. 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)

Rotund

- a. Fat
- b. Broad
- c. Dumpy
- d. Slim

-
8. 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)

Flamboyant

- a. Glamorous
- b. Modest
- c. Colorful

d. Sporty

9. Rearrange the parts of the sentence in correct order.

(+2, -0.5)

Bringing equity

P: for the rural population should be

Q: a priority for the National Health Mission

R: in access to the doctors and medicines

a. QRP

b. RQP

c. PRQ

d. RPQ

10. 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)

The cat caught a rat.

a. A rat has been caught by the cat.

b. A rat was caught by the cat.

c. A rat is caught by the cat.

d. A rat had been caught by the cat.

11. 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 wolf cried out to the hound, "A thought has just come into my head."

- a. The wolf cried out that a thought had just came into his head.
- b. The wolf cried out to the hound that a thought had just come into his head.
- c. The wolf cried out about a thought into his head to the hound.
- d. The wolf told hound about a thought into his head.

12. 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. Caetegory
- b. Category
- c. Cateigory
- d. Categoury

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)

Let us examine the facts in the case more _____. First of all, language is no more _____ a medium; it is like air to the creatures of the land or water to fishes. If it is perfectly clear and pure, we do not notice it any more than we notice pure air when the sun is shining _____ a clear sky, or the taste of pure cool water when we drink a glass _____ a hot day. Unless the sun is shining, there is no brightness; unless the water is cool, there is _____ refreshment.

in the case more _____. First of all

- a. closely
- b. close
- c. closed
- d. closeness

14. 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)

Let us examine the facts in the case more _____. First of all, language is no more _____ a medium; it is like air to the creatures of the land or water to fishes. If it is perfectly clear and pure, we do not notice it any more than we notice pure air when the sun is shining _____ a clear sky, or the taste of pure cool water when we drink a glass _____ a hot day. Unless the sun is shining, there is no brightness; unless the water is cool, there is _____ refreshment.

no more _____ a medium;

- a. then
- b. so
- c. such
- d. than

15. 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)

Let us examine the facts in the case more _____. First of all, language is no more _____ a medium; it is like air to the creatures of the land or water to fishes. If it is perfectly clear and pure, we

do not notice it any more than we notice pure air when the sun is shining _____ a clear sky, or the taste of pure cool water when we drink a glass _____ a hot day. Unless the sun is shining, there is no brightness; unless the water is cool, there is _____ refreshment.

sun is shining _____ a clear sky,

- a. inside
- b. in
- c. into
- d. inner

-
16. 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)

Let us examine the facts in the case more _____. First of all, language is no more _____ a medium; it is like air to the creatures of the land or water to fishes. If it is perfectly clear and pure, we do not notice it any more than we notice pure air when the sun is shining _____ a clear sky, or the taste of pure cool water when we drink a glass _____ a hot day. Unless the sun is shining, there is no brightness; unless the water is cool, there is _____ refreshment.

when we drink a glass _____ a hot day .

- a. on
- b. onto
- c. of
- d. or

17. 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)

Let us examine the facts in the case more _____. First of all, language is no more _____ a medium; it is like air to the creatures of the land or water to fishes. If it is perfectly clear and pure, we do not notice it any more than we notice pure air when the sun is shining _____ a clear sky, or the taste of pure cool water when we drink a glass _____ a hot day. Unless the sun is shining, there is no brightness; unless the water is cool, there is _____ refreshment.

there is _____ refreshment .

- a. not
- b. no
- c. none
- d. never

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

Don't put all your eggs in one basket

- a. It is wise to have many baskets before you start collecting eggs.
- b. The strength of the safe has to be in proportion to the value of goods it has to protect.
- c. Have a fool proof plan before venturing on a risky mission.
- d. Don't risk everything on the success of one venture.

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

Let your hair down

- a. Behave uninhibitedly.
- b. Accept your deeds.
- c. Remove the mask.
- d. Feel fresh and rejuvenated.

-
20. In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. (+2, -0.5)

Senseless talk or writing

- a. Astute
- b. Balderdash
- c. Sagacious
- d. Prudent

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

Made or done in the traditional or original way

- a. Authentic
- b. Effigy
- c. Archetype

d. Forge

-
22. 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)

At one time, the lock industry here flourished and locks (was exported) on a major scale.

- a. is exported
- b. were export
- c. were exported
- d. no improvement

-
23. 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)

The bliss of (oversleeping) cuddled up under a warm and cosy blanket is just other-worldly.

- a. oversleep
- b. oversleeps
- c. overslept
- d. no improvement

-
24. 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)

Students who

A: intricacies of learning it

B: subject know the

C: study logic as a

a. CAB

b. BCA

c. BAC

d. CBA

25. 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. scintillaters

b. scintilators

c. scintillators

d. scintilaters

General Intelligence

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

Rabbit : Animal :: ? : ?

- a. Sun : Moon
- b. Pentagon : Figure
- c. Lion : Bird
- d. Animal : Cow

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

63 : 36 :: ? : ?

- a. 94 : 49
- b. 35 : 54
- c. 47 : 72
- d. 73 : 39

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

ACD : ZXW :: PMN : ?

- a. LMN

- b. MPN
 - c. KOP
 - d. KNM
-

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

- a. Rhombus
 - b. Cylinder
 - c. Cone
 - d. Sphere
-

30. 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 given options. (+2, -0.5)

- a. 14 - 18
 - b. 42 - 46
 - c. 22 - 28
 - d. 24 - 28
-

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

- a. UQMI

- b. SOKG
- c. MIEB
- d. PLHD

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

- 1. Exception
- 2. Exceptional
- 3. Exchanging
- 4. Exchanged
- 5. Excess

- a. 12543
- b. 21453
- c. 42531
- d. 32154

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

11, 13, 17, 19, 23, ?

- a. 25
- b. 27
- c. 31

d. 37

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)

BEG, DGI, FIK, HKM, ?

- a. JNP
 - b. NMO
 - c. JMO
 - d. KLO
-

35. Saurav, Mohit, Mukesh, Sumit and Bhim are arranged in descending order of their height from top to bottom. Saurav is at third place. Bhim is between Sumit and Saurav while Sumit is not at the top end. Who is at second place from the top? (+2, -0.5)

- a. Mohit
 - b. Mukesh
 - c. Bhim
 - d. Cannot be determined
-

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

Contemptuous

- a. Con

- b. Tom
- c. Pretty
- d. Post

37. In a certain code language, " **DRAPE** " is written as " **IWFUJ** ". How is " **RIGID** " (+2, -0.5)
written in that code language?

- a. CPLPK
- b. RVCVB
- c. WNLNI
- d. GTATK

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

$$4 \times 18 \div 5 - 10 + 8 = ?$$

- a. 35
- b. 22
- c. 5
- d. 42

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

$$12 - 16 \times 25 \div 80 + 10 = 7$$

a. $\div$ and $\times$

b. and $+$

c. $\times$ and $-$

d. $\div$ and $-$

40. If $6a1 = 70$, $2a3 = 50$ and $4a5 = 90$, then find the value of $1a4 = ?$ (+2, -0.5)

a. 50

b. 30

c. 10

d. 60

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

BAAAAAAB, ABAAAAAB, AABAAAAB, AAABAAAB, AAAABAAB, _____.

a. AAAAABAB

b. AAAAAABB

c. BAAAAAAB

d. ABAAAAAB

42. A shopper in a mart loads his trolley and walks 30 m through an alley which is going South, then he turns to his left and walks 10 m, then he turns North and walks another 10 m, then he turns West and walks 45 m and (+2, -0.5)

then he turns North and walks 20 m. Where is he now with reference to his starting position?

- a. 35 m West
- b. 55 m West
- c. 35 m East
- d. 55 m East

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: All watches are ornaments.

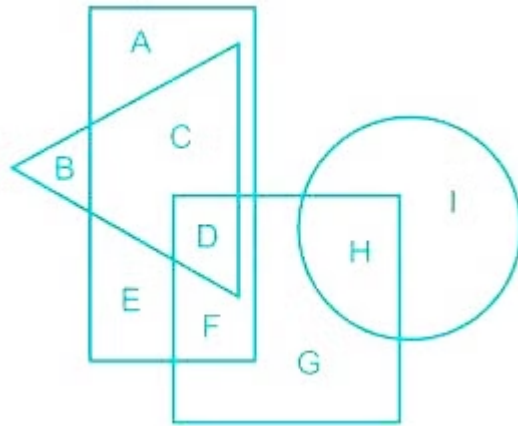
Statement II: All clocks are watches.

Conclusion I: All ornaments are clocks.

Conclusion II: All clocks are ornaments.

- 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 Physicians, circle represents racers, triangle represents Writers and square represents Mothers. Which set of letters represents Mothers who are not Racers? (+2, -0.5)



- a. FGH
- b. ECA
- c. DFG
- d. DGFI

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)

GLN, HNQ, IPT, JRW, ?

- a. KTZ
- b. KUY
- c. LTY
- d. LUZ

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

87, 62, 42, 27, 17, ?

- a. 7
- b. 12
- c. 8
- d. 10

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

- a. (14, 29, 43)
- b. (11, 23, 34)
- c. (15, 31, 46)
- d. (21, 42, 64)

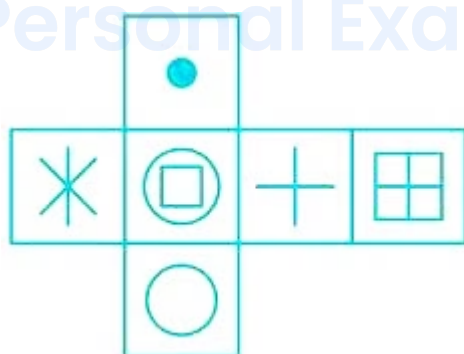
48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure? (+2, -0.5)

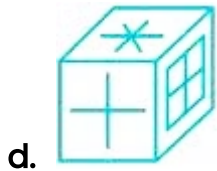
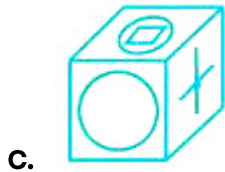
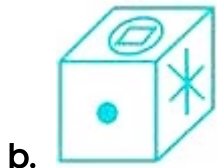




49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure? (+2, -0.5)

Your Personal Exams Guide





50. A word is represented by only one set of numbers as given in any one of the alternatives. The set 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 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 'G' can be represented by, 04, 13 etc and 'Q' can be represented by 85, 96 etc. Similarly, you have to identify the set for the word 'GOES'.

(+2,
-0.5)

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

a. 11,75,12,77

b. 32,76,44,95

c. 13,78,41,66

d. 33,88,21,89

Quantitative Aptitude

51. Find the remainder in the expression $\frac{557 \times 653 \times 672}{9}$ (+2, -0.5)

- a. 0
- b. 3
- c. 5
- d. 6

52. Calculate the value of x, if $\sqrt{1 - \left(\frac{x}{529}\right)} = \left(\frac{16}{23}\right)$ (+2, -0.5)

- a. 283
- b. 276
- c. 273
- d. 374

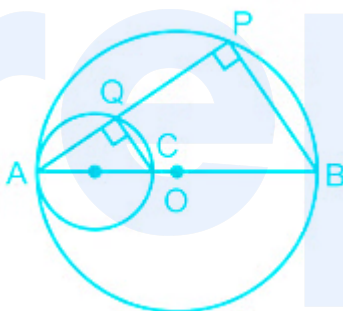
53. How many solutions does a pair of linear equations will have, if the equations are $4x + 5y - 6 = 0$ and $16x + 20y + 20 = 0$? (+2, -0.5)

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

54. Determine the value of m for which $4x + \frac{\sqrt{x}}{6} + \frac{m^2}{4}$ is a perfect square. (+2, -0.5)

- a. $1/24$
- b. $1/12$
- c. 12
- d. 24

55. Consider the circle as shown in the figure and choose the **CORRECT** option for this case. (+2, -0.5)



- a. $QC \parallel PB$
- b. QC is never parallel to PB
- c. $QC = \frac{1}{2} \times PB$
- d. $QC \parallel PB, QC = \frac{1}{2} \times PB$

56. The angle subtended by the chord of length 10 cm is 120° at the centre. Calculate the distance of the chord (in cm) from the centre. (+2, -0.5)

- a. $5/\sqrt{3}$
- b. $6/\sqrt{3}$

c. $4/\sqrt{3}$

d. $5/(2\sqrt{3})$

57. If $P : Q = 9 : 7$, then what is the value of $(P - Q) : (P + Q)$? (+2, -0.5)

a. 1 : 2

b. 1 : 8

c. 1 : 4

d. 2 : 13

58. How much quantity (in kg) of wheat costing Rs. 84 per kg must be mixed with 81 kg of wheat costing Rs. 60 per kg so that on selling the mixture at Rs. 75.9 per kg, there is a gain of 15%? (+2, -0.5)

a. 27

b. 20.5

c. 22.75

d. 24

59. The average height of A, B and C is 148 cm. If the average height of A and B is 136 cm and that of B and C is 125 cm, then what is the height (in cm) of B? (+2, -0.5)

a. 56

b. 78

c. 112

d. 130

60. Some part of Rs. 17500 was lent at the rate of 24% per annum simple interest and the remaining part at the rate of 10% per annum simple interest. The total interest received after 5 years is Rs. 13300. What is the ratio of money lent at the rate of 24% and 10%? (+2, -0.5)

a. 12 : 13

b. 3 : 4

c. 3 : 2

d. 13 : 22

61. If 60% of total articles are sold at a loss of 50% and remaining articles are sold at a profit of 50%, then what will be the overall loss percentage? (+2, -0.5)

a. 20

b. 15

c. 25

d. 10

62. If three successive discounts of 20%, 30% and 40% are given, then what will be the net discount (in percentage)? (+2, -0.5)

a. 80

b. 87.6

- c. 90
- d. 66.4

63. Which of the following statements(s) is are **TRUE**? (+2, -0.5)

I. $\sqrt{676} + \sqrt{6.76} + \sqrt{0.0676} = 27.76$

II. $\sqrt{339} + \sqrt{36} + \sqrt{49} + \sqrt{81} = 19$

- a. Only I
- b. Only II
- c. Neither I nor II
- d. Both I and II

64. R is 80% more efficient than S. If S alone can make a book in 90 days, then R alone can make the book in how many days? (+2, -0.5)

- a. 65
- b. 60
- c. 50
- d. 70

65. Diameter of a car wheel is 21 cm. A car driver moving at the speed of 66 km/hr takes 36 seconds to reach a destination. How many revolutions will the wheel make during the journey? (+2, -0.5)

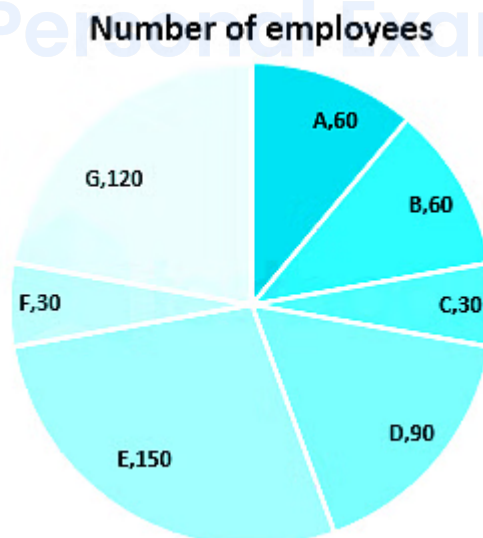
- a. 1800

- b. 1500
- c. 1200
- d. 1000

66. What is the value of 88% of $1125 + 20\%$ of 425 ? (+2, -0.5)

- a. 1025
- b. 1125.2
- c. 1075
- d. 1055

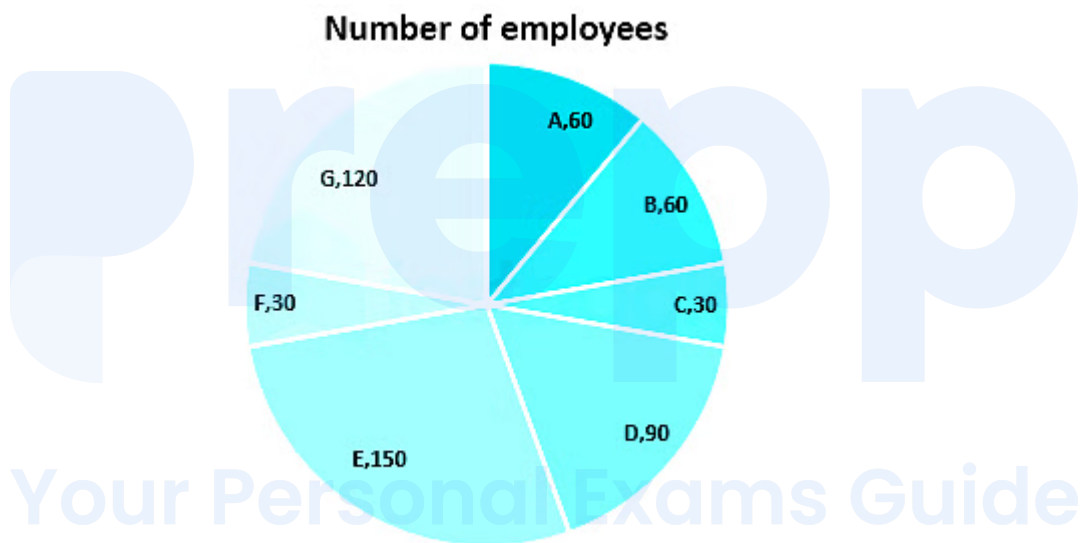
67. **Directions:** The HR department of a company prepared a report. The pie chart from this report shows number of employees in all the departments that the company has. Study the diagram and answer the following questions. (+2, -0.5)



The most number of employees belong to which department?

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

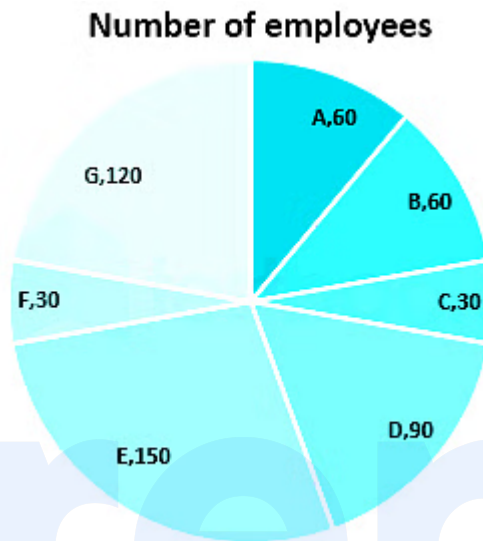
68. **Directions:** The HR department of a company prepared a report. The pie chart from this report shows number of employees in all the departments that the company has. Study the diagram and answer the following questions. (+2, -0.5)



What is the total number of employees of the company?

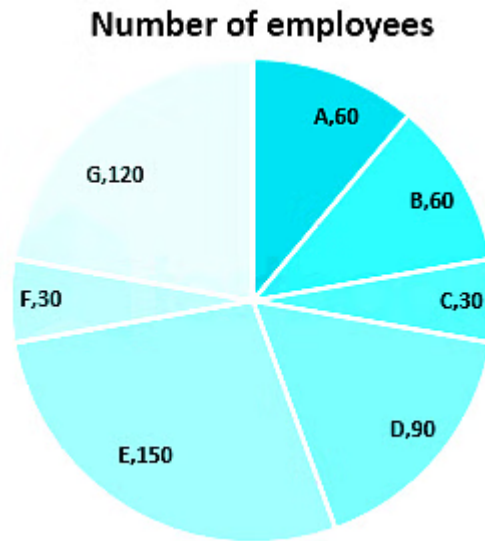
- a. 400
- b. 600
- c. 480
- d. 540

69. **Directions:** The HR department of a company prepared a report. The pie chart from this report shows number of employees in all the departments that the company has. Study the diagram and answer the following questions. (+2, -0.5)



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

- a. 30
 - b. 40
 - c. 50
 - d. 60
-
70. **Directions:** The HR department of a company prepared a report. The pie chart from this report shows number of employees in all the departments that the company has. Study the diagram and answer the following questions. (+2, -0.5)



If the average monthly salary of the employees of this company is Rs. 20,000 then what is the total of the salaries (in Rs lakhs) paid to all the employees of this company?

- a. 112
- b. 120
- c. 124
- d. 108

Your Personal Exams Guide

71. The area of an equilateral triangle is $49\sqrt{3} \text{ cm}^2$. Find its side (in cm). (+2, -0.5)

- a. 7
- b. 14
- c. 28
- d. 42

72. What is the measure of an exterior angle of a regular polygon of 6 sides? (+2, -0.5)

- a. 45°
- b. 60°
- c. 40°
- d. 36°

73. The total surface area of a hemisphere is 1039.5 cm^2 . Find its diameter (in cm). (+2, -0.5)

- a. 21
- b. 10.5
- c. 42
- d. 31.5

74. $\triangle DEF$ is right angled at E. If $\angle F = 30^\circ$, then find the value of $(\cos D - 1/\sqrt{2})$. (+2, -0.5)

- a. $-1/2$
- b. $(\sqrt{6} - 1)/\sqrt{3}$
- c. $(\sqrt{2} - 2)/2\sqrt{2}$
- d. $\sqrt{3} - 2$

75. In $\triangle PQR$ measure of angle Q is 90° . If $\tan P = 24/7$, and $PQ = 14 \text{ cm}$, then what is the length (in cm) of side QR? (+2, -0.5)

- a. 50

b. 20

c. 26

d. 48

Prepp

Your Personal Exams Guide

General Awareness

76. The agricultural price support program is an example of _____. (+2, -0.5)

- a. a price ceiling
- b. a price floor
- c. equilibrium pricing
- d. No option is correct.

77. Which was the first modern industry to develop in India? (+2, -0.5)

- a. Iron and Steel Industry
- b. Cement Industry
- c. Cottage Industry
- d. Engineering Industry

78. Which of the following lake lies on the Equator in Africa continent? (+2, -0.5)

- a. Tanganyika
- b. Victoria lake
- c. Nyasa lake
- d. Lake Kariba

79. Jog Falls is situated on which river? (+2, -0.5)

- a. Sharavati
 - b. Cauvery
 - c. Narmada
 - d. Chambal
-

80. Faizi lived in the court of _____. (+2, -0.5)

- a. Humayun
 - b. Dara Shikoh
 - c. Bahadur Shah Zafar
 - d. Akbar
-

81. Where did the leader of the Individual Satyagraha movement, Acharya Vinoba Bhave start this movement? (+2, -0.5)

- a. Nashik
 - b. Poona
 - c. Pavnar
 - d. Nagpur
-

82. The well-known dialogue between Nachiketa and Yama is mentioned in which Upanishad? (+2, -0.5)

- a. Chhandogyopanishad

- b. Mundkopanishad
 - c. Kathopanishad
 - d. Kenopanishad
-

83. Which country, in January 2018 broke India's monopoly in providing Internet access to Nepal by becoming country's second Internet service provider? (+2, -0.5)

- a. South Korea
 - b. China
 - c. Japan
 - d. Indonesia
-

84. Which among the following is NOT a recipient of Sangeet Natak Akademi's fellowships (Akademi Ratna)-2018? (+2, -0.5)

- a. Gajendra Chauhan
 - b. Ram Gopal Bajaj
 - c. Sunil Kothari
 - d. Arvind Parikh
-

85. When was the "Boxer Rebellion" happened in China? (+2, -0.5)

- a. 1895
- b. 1900

c. 1905

d. 1909

86. What is formed when helium atom loses one electron? (+2, -0.5)

a. Proton

b. Positive helium ion

c. Negative helium ion

d. Alpha particle

87. Apart from proposing an atomic theory, what did John Dalton researched on? (+2, -0.5)

a. Plants

b. Colour blindness

c. Penicillin

d. Plastic

88. Which among the following is/are the unitary feature (s) of Indian Constitution? (+2, -0.5)

I. Single Constitution for State and Centre

II. Single Citizenship

III. Integrated Judiciary

a. Only I

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

89. Article 360 of Indian Constitution, empowers whom to proclaim a Financial Emergency? (+2, -0.5)

- a. The Finance Minister of India
- b. The Governor of Reserve Bank of India
- c. The President of India
- d. Defence Minister of India

90. Match the following. (+2, -0.5)

Organism Feature of fission

- | | |
|-----------------|--|
| I. Amoeba | 1. Many daughter cells by multiple fission |
| II. Leishmania | 2. Fission takes place in a definite orientation |
| III. Plasmodium | 3. Fission can take place in any plane |

- a. I – 2, II – 3, III – 1
- b. I – 1, II – 3, III – 2
- c. I – 2, II – 1, III – 3
- d. I – 3, II – 2, III – 1

91. What is the basis of classifying various plant tissues as meristematic tissue (+2, -0.5) and permanent tissue?

- a. Size
- b. Dividing capacity
- c. Location
- d. No option is correct.

92. In December 2017, who launched project 'DARPAN' (Digital Advancement of Rural Post Office for a New India)? (+2, -0.5)

- a. Jayant Sinha
- b. Manoj Sinha
- c. Ravi Shankar Prasad
- d. Prakash Javadekar

93. Botanical Survey of India has discovered a new species of parasitic flowering plant Gleadowia Konyakianorum named in the honour of which community? (+2, -0.5)

- a. Toda
- b. Caddo
- c. Nagas
- d. Tobu

94. In October 2017, State Bank of India announced to set up Country's largest innovation centre in _____. **(+2, -0.5)**

- a. New Delhi
- b. Bangalore
- c. Navi Mumbai
- d. Hyderabad

95. The Union Home Ministry will set up an Indian Cyber Crime Coordination Centre (I4C), an apex coordination centre at which place to deal with cybercrimes? **(+2, -0.5)**

- a. Hyderabad
- b. Pune
- c. Bengaluru
- d. New Delhi

96. A body of mass 6 kg accelerates from 6 m/s to 18 m/s in 3 seconds due to the application of a force on it. Calculate the magnitude of this force (in N). **(+2, -0.5)**

- a. 48
- b. 60
- c. 24
- d. 96

97. We obtain average _____ by dividing the total energy consumed by the total time taken. (+2, -0.5)

- a. force
- b. power
- c. torque
- d. momentum

98. Water covers _____% of the Earth's surface. (+2, -0.5)

- a. 95
- b. 70
- c. 55
- d. 35

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

- A) In 2017, Lewis Hamilton raced in Formula One for Mercedes.
 - B) In 2018 IPL auctions, Mumbai Indians retained Hardik Pandya.
 - C) Chen Meng won the Table Tennis 2017 ITTF World Tour Grand Finals Women's Singles.
- a. Only A
 - b. Only B
 - c. Both B and C

d. A, B and C

100. _____ among the following is not an operating system. (+2, -0.5)

- a. Mozilla Firefox
- b. Microsoft Windows
- c. Linux
- d. Apple MacOS

Prepp

Your Personal Exams Guide

Answers

1. Answer: a

Explanation:

The correct answer is 1

★ Key Points

Reading the above sentence, we find that:

- The sentence is in the past tense, as we can figure out from the word **enveloped**.
- Therefore the verb **look** should be changed to **looked**, which is the past tense form of look.
- Thus from the given points, we can infer that the error lies in the 1st part of the sentence.

Therefore the correct answer is 1.

The correct answer will be: ***looked** up after the blast of light had enveloped the park.*

Your Personal Exams Guide

2. Answer: b

Explanation:

The correct answer is 2.

★ Key Points

Reading the above sentence we find that:

- The word **while** is incorrectly used.
- **While** is a noun that means a period of time.
- It can also be used as a **conjunction** and as an **adverb** with the same meaning.

- Instead, we should use a **pronoun** that is used to **refer to something previously mentioned**.
- **Which** is a pronoun that is used to refer to something previously mentioned.
- Thus from the above points we can conclude that the error lies in part **2** of the sentence.

The correct sentence will be: *According to the Copernican principle, the Earth does not occupy a unique position in the Universe **which** implies life on other planets can be a possibility.*

3. Answer: c

Explanation:

The correct answer is **Coming of**

★ Key Points

Let's look at the meaning of the correct option.

- **Coming of** when coupled with the word '**age**' becomes a **very commonly used phrase** in the English Language.
- **Coming of age** : used to describe a young person's transition from being a child to being an adult.
- From the above points, we see how **coming of age** is the most appropriate phrase given the context of the sentence.

Therefore the correct option to be filled in the blank is **coming of** .

4. Answer: d

Explanation:

The correct answer is **permanent** .

★ Key Points

Let's look at the meaning of the given options.

- **Imminent** : About to happen.
- **Deponent** : Passive or middle in form but active in meaning.
- **Remnant** : A part or quantity that is left after the greater part has been used.
- **Permanent** : Lasting or intended to last or remain unchanged indefinitely

Out of the given meanings, only the meaning of the word **permanent** is appropriate regarding the context of the sentence.

The correct sentence: *The love which is based on physical beauty is not **permanent**.*

5. Answer: a

Explanation:

The correct answer is **Pacify**.

★ Key Points

Let's look at the meaning of the given word and the correct option.

- **Mollify** : To calm; quieten; reduce the severity of.
- **Pacify** : To make calm.

Thus from the given meanings, we find that both words express the same meaning.

Therefore the correct is **Pacify**.

★ Additional Information

Let's look at the meaning of the other given options.

- **Agitate** : Make someone troubled or nervous.
- **Provoke** : Stimulate or give rise to (a reaction or emotion, typically a strong or unwelcome one) in someone.

- **Worry** : Feel or cause to feel anxious or troubled.
-

6. Answer: a

Explanation:

The correct answer is **Appeal** .

★ Key Points

Let's look at the meaning of the given word and the correct option.

- **Importune** : Harass persistently for or to do something.
- **Appeal** : Serious urgent or heartfelt request.

Thus from the above points, we find that both the word express the meaning of asking for something, albeit in two different ways.

★ Additional Information

Let's look at the meaning of the other given options.

- **Important** : Of great significance or value.
 - **Imply** : Indicate the truth or existence.
 - **Purchase** : Acquire by paying for it.
-

7. Answer: d

Explanation:

The correct answer is **Rotund**

★ Key Points

Let's look at the meaning of the given word and the correct answer.

- **Rotund** : Large and plump.
- **Slim** : Gracefully thin; slender.

Thus from the above meanings, we find that both the words express the opposite meaning.

Thus the correct answer is **Slim**.

Let's look at the meaning of the other given options.

- **Fat** : Having a large amount of excess flesh.
- **Broad** : Large in area, covering a large area.
- **Dumpy** : Short and stout (with respect to a person.)

8. Answer: b

Explanation:

The correct answer is **Modest**.

★ Key Points

Let's look at the meaning of the given word and the correct option.

- **Flamboyant** : Tending to attract attention because of their exuberance.
- **Modest** : Relatively moderate.

Thus from the above meanings, we find that both the words express the opposite meanings.

★ Additional Information

Let's look at the meaning of the other given options.

- **Glamorous** : The quality of being alluring; fascinating and charming.
- **Colourful** : Having much or varied colour.
- **Sporty** : Casual yet attractively stylish.

9. Answer: d

Explanation:

Equity = fairness. Where can you bring fairness? R must be first as *access to doctors and medicines* aptly fits the context. Rule out 1) and 3). Q can't be next as **medicines a priority for** will be grammatically incorrect especially since there is no comma after *medicines*. Option 4) *RPQ* is the correct answer.

Bringing equity in access to the doctors and medicines for the rural population should be a priority for the National Health Mission.

10. Answer: b

Explanation:

The correct answer is **A rat was caught by the cat**.

★ Key Points

While changing an active voice to a passive voice:

- The **object of the active voice** becomes the **subject of the passive voice** and vice versa.
- Here the **object** rat becomes the **subject**.
- And the **subject** cat becomes the **object**.
- The sentence is given in the **simple past tense** and it will change to **was/were + past participle**.
- Thus the sentence becomes **A rat was caught by the cat**.

Thus from the above-given points, we can infer that the correct answer is **A rat was caught by the cat**.

11. Answer: b

Explanation:

Has => had in reported speech => rule out 3) and 4). With **had**, we always use the verb in its original form i.e *simple present* form. Come. Option 2) *The wolf cried out to the hound that a thought had just come into his head* is the correct answer.

12. Answer: b

Explanation:

The correct answer is **Category** .

★ Key Points

Looking at the given options we find that:

The only correctly spelt word is **Category** .

- **Category** : The class or division of things regarded as having particular shared characteristics.
- **Example** : *The various **categories** of research.*

Thus from the given points, we can conclude that the correct answer is **Category** .

13. Answer: a

Explanation:

The correct answer is **closely** .

★ Key Points

Reading the given sentence we find that:

- The blank should be filled with an adverb that will give more meaning to the verb **examine** .
- Out of the given options, only **option 1** is an **adverb** .
- Thus the correct answer here will be **closely** .
- It tells us that facts are to be examined closely i.e with more detail.

Thus from the above points, we can conclude that the correct answer is **closely** .

★ Additional Information

Adverb : A word or phrase that modifies or qualifies an adjective, verb, or other adverb or a word group, expressing a relation of place, time, circumstance, manner, cause, degree, etc.

14. Answer: d

Explanation:

The correct answer is **than** .

★ Key Points

Reading the given sentence we find that:

- A comparison is made here using **more** .
- **Than** is a preposition that is used in **comparison** .
- **Than** : used to introduce the second element in comparison.
- **Example** : They go out less **than** they did when they were in Paris.

Therefore, from the given points we can conclude that the correct answer is **than** .

15. Answer: b

Explanation:

The correct answer is **in**

★ Key Points

Reading the given sentence we find that:

- The sentence must contain a **preposition** since it has to **define a relation between the sun and sky**.
- Since we are looking for a preposition the word **inner** can be ruled out as it is an adjective.
- We can also rule out **inside** as it will signify that the sky is containing the sun fully, which is not true.
- **Into** cannot be used here as it **does not fit the context**. The sun can never shine into the sky
- That leaves us with the **in** which is the correct preposition here.
- The preposition **in** tells us the position of the sun i.e where it is shining.

The correct answer is: '*sun is shining **in** a clear sky.*'

16. Answer: a

Explanation:

The correct answer is **on**.

★ Key Points

Reading the given sentence we find that:

- A preposition that best describes or indicates the day or part of the day an event takes place.
- Here the question is indicating a **hot day**.
- Therefore, the most appropriate preposition from the options is '**on**'.

- Whenever we describe the time of something with respect to *date* or *day*, we use **on**.

Therefore, the correct answer is **on**.

17. Answer: b

Explanation:

The correct answer is **no**

★ Key Points

Reading the above sentence we find that:

- **Not** is an **incorrect** option here as it is used with **verbs**.
- **None** is an **incorrect** option here as it is followed by **of**.
- **Never** is an **incorrect** option here as it represents **time**, not quantity.
- Thus that leaves us with option **no**.
- Following the structure of the previous sentence i.e 'Unless the sun is shining, there is **no** brightness.'

Thus from the given points, we can come to the conclusion that the correct answer is **no**.

The correct answer will be: *there is **no** refreshment*.

18. Answer: d

Explanation:

The correct answer is **Don't risk everything on the success of one venture**.

★ Key Points

Let's look at the meaning of the given idiom:

- **Don't put all your eggs in one basket** :one should not concentrate all efforts and resources in one area as one could lose everything.
 - **Example** : While trading in stock **putting all your eggs in one basket** is a dangerous plan.

Thus from the given meaning, we can conclude that the correct answer is **don't risk everything on the success of one venture**.

19. Answer: a

Explanation:

The correct answer is **Behave uninhibitedly** .

★ Key Points

Let's look at the meaning of the given idiom:

- **Let your hair down** : To act comfortable and relaxed to do what you want.
- **Example** : *I t is only with friends that most people feel they can let their hair down and be themselves.*

Thus from the given meaning, we can infer that the correct answers is **behave uninhibitedly**.

★ Additional Information

Let's look at the meaning of the word **uninhibitedly** .

- **Uninhibitedly** : Free from any inhibition; unrestrained or unselfconscious.
-

20. Answer: b

Explanation:

The correct answer is Balderdash .

★ Key Points

Let's look at the meaning of the correct word.

- Balderdash : Senseless talk or writing; nonsense.
- Example : *Every word that came out of the drunk man's mouth was balderdash .*

Thus from the given meaning and example, we can conclude that the correct answer is balderdash .

★ Additional Information

Let's look at the meanings of the other given options.

- Astute : Ability to notice and understand things clearly.
- **Sagacious** : Having or showing keen mental discernment and good judgement; wise or shrewd.
- **Prudent** : Acting with or showing care and thought for the future.

21. Answer: a

Explanation:

The correct answer is **Authentic** .

★ Key Points

Let's look at the meaning of the marked option.

- **Authentic** : Made or done in the traditional or original way, or in a way that faithfully resembles an original.
- **Example** : *The restaurant serves **authentic** Italian meals.*

Thus from the given meaning and example, we can conclude that the correct answer is **authentic** .

★ Additional Information

Let's look at the meanings of the other given words.

- **Effigy** : A sculptor or model of a person.
- **Archetype** : A very typical example of a person or a thing.
- **Forge** : Create something that is strong enduring or successful.

22. Answer: c

Explanation:

The correct answer is **was exported** .

★ Key Points

Reading the given sentence we find that:

- The word flourished in the given sentence indicates that it is in the **past tense**.
- And the plural noun locks in the sentence indicates that the verb should have a plural helping verb.
- Thus from the above points, we can conclude that **were exported** will be the correct answer.

Thus the correct answer will be **were exported** .

★ Mistake Points

In the given options the option 2 is wrong for the following reasons.

- **Were export** is wrong because as we have noticed, the sentence is in the past tense.
- Therefore the verb export should also be in the past tense i.e **exported** .

23. Answer: d

Explanation:

The correct answer is No improvement .

★ Key Points

Reading the above sentence we find that:

- There is no error in the given sentence.
- In the given question a general experience or activity is mentioned.
- Therefore the correct noun for the activity is **oversleeping** .
- Even though it ends with an - ing , **oversleeping**, in this case, is a noun or it is a gerund .

★ Important Points

- Gerund : An -ing form of a verb that has the same function as a noun.
- Example : **Sleeping** is good for health.
- In the given example **sleeping** is an -ing form of a verb that is acting as a noun.

★ Additional Information

Let's look at the meaning of the word **Bliss**

- **Bliss** : Happiness .

Your Personal Exams Guide

24. Answer: d

Explanation:

The correct answer is **CBA**

★ Key Points

Reading the given question we find that:

- A sentence can't end with an **article** (**a, an, the**).
- Therefore parts **B** and **C** cannot be the last part of the sentence.
- Therefore **only A** can be the last part of the sentence.

- In the given question the **Student's who** ends with **who** and it should be followed by a **verb**.
- In **part B** 'subject know the' in this the word **subject** is not a verb.
- Therefore looking at the options we find that the correct option is **CBA**

Students who study logic as a subject know the intricacies of learning it.

25. Answer: c

Explanation:

The correct answer is **scintillators**.

★ Key Points

Let's look at the meaning of the correct option.

- **Scintillators** : a material that fluoresces when struck by a charged particle or high-energy photon.
- **Example** :A 13ml of liquid scintillator.

Thus from the given meaning and the example we can conclude that the correct answer is **scintillators**.

All the other options are a wrong spelling of the given word.

Therefore the correct answer is **scintillators**.

26. Answer: b

Explanation:

Just as Rabbit is an animals, Pentagon is a Figure.

Hence, answer is Pentagon: Figure.

27. Answer: a

Explanation:

The pattern followed here is:

63 is written in reverse as 36

Same pattern will be followed for missing terms:

94 is written in reverse order as 49.

Hence, answer is 94 : 49.

28. Answer: d

Explanation:

Here, opposite of each letter as per English alphabetic order has been written in the next word,

A is 1st from left: Z is 1st from right.

C is 3rd from left: X is 3rd from right.

D is 4th from left: W is 4th from right.

Same will be followed for PMN,

P is 16th from right: K is 16th from left.

M is 13th from right: N is 13th from left.

N is 14th from right: M is 14th from left.

Hence, answer is "KNM".

29. Answer: a

Explanation:

All except Rhombus has Volume.

Hence, answer is Rhombus.

30. Answer: c

Explanation:

In all groups except group 3, second number is 4 more than the first number.

Hence, answer is 22 - 28.

31. Answer: c

Explanation:

The pattern followed here is :

$U - 4 = Q$; $Q - 4 = M$; $M - 4 = I$

$S - 4 = O$; $O - 4 = K$; $K - 4 = G$

$M - 4 = I$; $I - 4 = E$; $E - 3 = B$

$P - 4 = L$; $L - 4 = H$; $H - 4 = D$

Hence, MIEB are the odd letters as there is difference of 3 in E and B.

32. Answer: a

Explanation:

The dictionary order arrangement would be :

1. Exception
2. Exceptional
5. Excess
4. Exchange
3. Exchanging

Hence, the correct answer is 12543.

33. Answer: a

Explanation:

The pattern followed here is :

$$11 + 2 = 13$$

$$13 + 4 = 17$$

$$17 + 2 = 19$$

$$19 + 4 = 23$$

Same pattern will be followed for missing number :

$$23 + 2 = 25$$

Hence, answer is 25.

34. Answer: c

Explanation:

The pattern followed here is:

2 B	5 E	7 G
+2	+2	+2
4 D	7 G	9 I
+2	+2	+2
6 F	9 I	11 K
+2	+2	+2
8 H	11 K	13 M
+2	+2	+2
10 J	13 M	15 O

Hence, next term in the series is JMO.

35. Answer: d

Explanation:

On arranging descending order of height,

Position	Person	Condition
1	Mohit/ Mukesh	Sumit
2	Mohit/ Mukesh	
3	Saurav	
4	Bhim	
5	Sumit	

Here, either Mohit or Mukesh will be at second position.

Hence, answer cannot be determined.

36. Answer: c

Explanation:

- 1) Con → **Con** temptuous → can be formed.
- 2) Tom → C **on** te **m**ptuous → can be formed.
- 3) Pretty → Contemptuous → cannot be formed as there is no 'y' and 'r'.
- 4) Post → Con **tem** **ptu** **ou** **s** → can be formed.

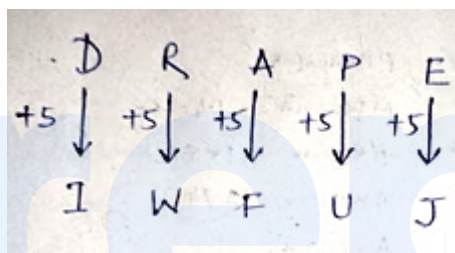
Hence, Pretty cannot be formed.

37. Answer: c

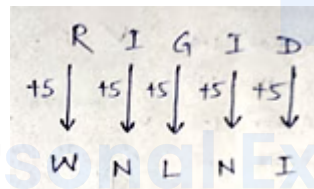
Explanation:

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 pattern followed here is:



Similarly,



Hence, the correct answer is "WNLNI".

38. Answer: c

Explanation:

Given equation

$$\Rightarrow 4 \times 18 \div 5 - 10 + 8 = ?$$

Symbol	+	-	×	÷
Code	-	÷	+	×

After Interchange

$$\Rightarrow 4 + 18 \times 5 \div 10 - 8$$

$$\Rightarrow 4 + 18 \times 0.5 - 8$$

$$\Rightarrow 4 + 9 - 8$$

$$\Rightarrow 13 - 8$$

$$\Rightarrow 5$$

Hence, correct answer is 5.

39. Answer: b

Explanation:

Given equation: $12 - 16 \times 25 \div 80 + 10 = 7$

By using option 1:

$$12 - 16 \div 25 \times 80 + 10$$

$$12 - 0.64 \times 80 + 10$$

$$12 - 51.2 + 10$$

$$-29.2$$

By using option 2:

$$12 + 16 \times 25 \div 80 - 10$$

$$12 + 16 \times 0.3125 - 10$$

$$12 + 5 - 10$$

$$17 - 10$$

$$7$$

By using option 3:

$$12 \times 16 - 25 \div 80 + 10$$

$$192 - 0.3125 + 10$$

$$201.6875$$

By using option 4

$$12 \div 16 \times 25 - 80 + 10$$

$$0.75 \times 25 - 80 + 10$$

$$18.75 - 80 + 10$$

$$-51.25$$

Hence, by interchanging - and +, we'll get the correct answer.

Hence, answer is option 2.

40. Answer: a

Explanation:

The pattern followed here is:

$$6 + 1 = 7 \text{ and } 7 \times 10 = 70$$

$$2 + 3 = 5 \text{ and } 5 \times 10 = 50$$

$$4 + 5 = 9 \text{ and } 9 \times 10 = 90$$

Same pattern will be followed for 1a4:

$$1 + 4 = 5 \text{ and } 5 \times 10 = 50$$

Hence, correct answer is 50.

41. Answer: a

Explanation:

B is moving 1 step ahead in every step.

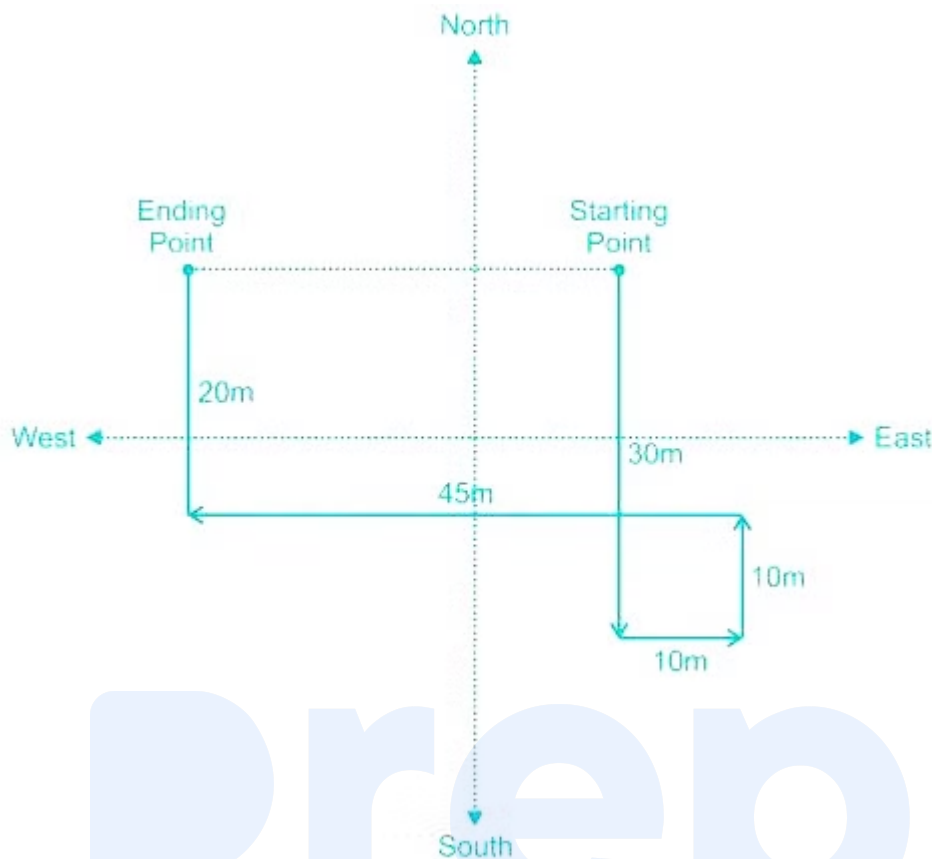
Hence, next term would be AAAAABAB.

42. Answer: a

Explanation:

The diagram given below shows the route of that shopper,

Your Personal Exams Guide

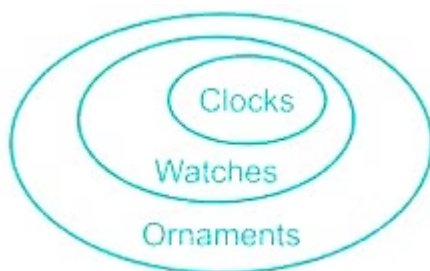


Hence, answer is 35 m West.

43. Answer: b

Explanation:

The least possible Venn Diagram for the given statements is as follows,



Conclusion I:

7	12	14
G	L	N
+1	+2	+3
8	14	17
H	N	Q
+1	+2	+3
9	16	20
I	P	T
+1	+2	+3
10	18	23
J	R	W
+1	+2	+3
11	20	26
K	J	Z

Hence, the next term in the series is KTZ.

46. Answer: b

Explanation:

The pattern followed here is:

$$87 - 25 = 62$$

$$62 - 20 = 42$$

$$42 - 15 = 27$$

$$27 - 10 = 17$$

Here, multiple of 5 are subtracted from the given number.

Same pattern will be followed to find the missing number:

$$17 - 5 = 12$$

Hence, answer is 12.

47. Answer: d

Explanation:

Logic: 1st number = 3rd number - 2nd number

1) (14, 29, 43) $\rightarrow 43 - 29 = 14$

2) (11, 23, 34) $\rightarrow 34 - 23 = 11$

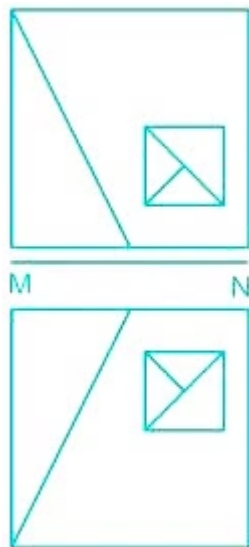
3) (15, 31, 46) $\rightarrow 46 - 31 = 15$

4) (21, 42, 64) $\rightarrow 64 - 42 = 22 \neq 21$

Hence, (21, 42, 64) is the odd one among the given alternatives.

48. Answer: b

Explanation:



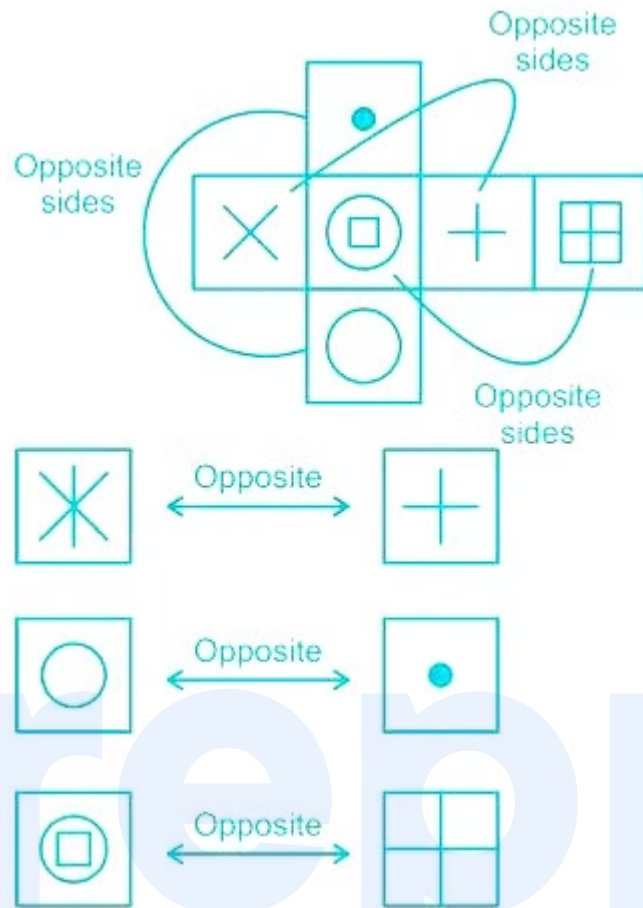
Hence, answer is 2.

49. Answer: d

Explanation:

prepp

Your Personal Exams Guide



Hence, answer is option 4 as components of option 4 can't be placed adjacent to each other. They are opposite to each other.

Your Personal Exams Guide

50. Answer: c

Explanation:

- 1) 11, 75, 12, 77 → J, R, H, Z
- 2) 32, 76, 44, 95 → L, Z, L, Y
- 3) 13, 78, 41, 66 → G, O, E, S
- 4) 33, 88, 21, 89 → I, S, B, P

Hence, '13, 78, 41, 66' represents 'GOES'.

51. Answer: d

Explanation:

Given,

$$\frac{557 \times 653 \times 672}{9}$$

$(557/9)$, then remainder = 8

$(653/9)$, then remainder = 5

$(672/9)$, then remainder = 6

Now, $(8 \times 5 \times 6)/9 = 240/9$

If $(240/9)$, then remainder = 6

$\therefore$ Remainder is 6

52. Answer: c

Explanation:

$$\sqrt{1 - \frac{x}{529}} = \frac{16}{23}$$

Squaring on both sides

$$\Rightarrow 1 - (x/529) = (256/529)$$

$$\Rightarrow (x/529) = \{1 - (256/529)\}$$

$$\Rightarrow x/529 = 273/529$$

$$\Rightarrow x = 273$$

$\therefore$ the value of x is 273

53. Answer: a

Explanation:

$$4x + 5y - 6 = 0 \text{ \& } 16x + 20y + 20 = 0$$

If $a_1/a_2 = b_1/b_2 = c_1/c_2$, then many solutions

If $a_1/a_2 = b_1/b_2 \neq c_1/c_2$, then no solution

Comparing on $a_1x + b_1y + c_1 = 0$ & $a_2x + b_2y + c_2 = 0$

$$\Rightarrow a_1 = 4, b_1 = 5, c_1 = -6 \text{ \& } a_2 = 16, b_2 = 20, c_2 = 20$$

$$\Rightarrow 4/16 = 5/20 \neq (-6)/20$$

So, there are no solution

54. Answer: b

Explanation:

We know, $(a + b)^2 = a^2 + 2ab + b^2$

$$\Rightarrow 4x + \frac{\sqrt{x}}{6} + \frac{m^2}{4}$$

$$\Rightarrow (2\sqrt{x})^2 + 2 \times 2\sqrt{x} \times \frac{1}{24} + \left(\frac{m}{2}\right)^2$$

To make the above equation a perfect square,

$$\Rightarrow m/2 = 1/24$$

$$\Rightarrow m = 2/24$$

$$\therefore m = 1/12$$

55. Answer: a

Explanation:

In this question options 3 & 4 not correct because data not sufficient to prove $QC = \frac{1}{2} \times PB$

And given that $\angle AQC = \angle APB = 90^\circ$

Now, we can say $QC \parallel PB$

56. Answer: a

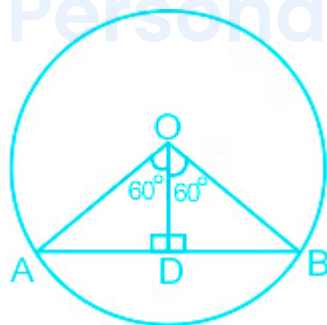
Explanation:

Given:

$$\angle AOB = 120^\circ$$

$$AB = 10 \text{ cm}$$

Calculations:



Draw $OD \perp AB$

$$\text{So, } \angle DOB = \frac{1}{2} \times \angle AOB = \frac{1}{2} \times 120 = 60^\circ$$

$$\Rightarrow DB = \frac{1}{2} \times 10 = 5 \text{ cm}$$

Now, In $\triangle ODB$

$$\Rightarrow \cot 60^\circ = OD/DB$$

$$\Rightarrow 1/(\sqrt{3}) = OD/5$$

$$\Rightarrow OD = 5/(\sqrt{3}) \text{ cm}$$

$\therefore$ The distance of the chord from the centre is $5/(\sqrt{3})$ cm.

57. Answer: b

Explanation:

$$\text{If } P : Q = 9 : 7$$

$$\text{Let } P = 9k \text{ \& } Q = 7k$$

$$\text{So, } (P - Q) : (P + Q) = (9k - 7k) : (9k + 7k) = 2k : 16k = 1 : 8$$

58. Answer: a

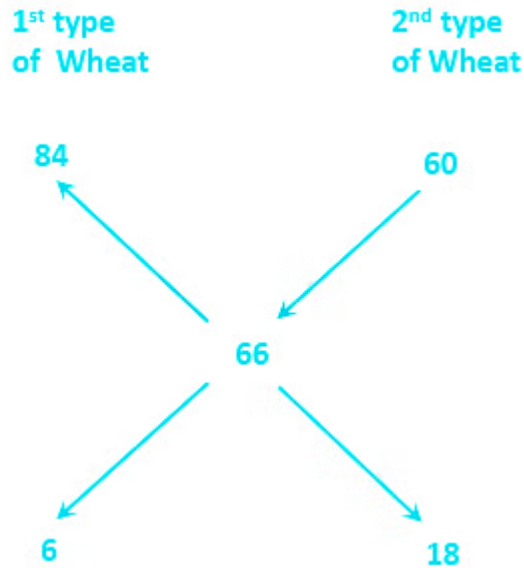
Explanation:

Let x kg of wheat costing Rs 84 per kg must be mixed.

SP of the 1 kg wheat = Rs. 75.9

So, CP of the 1 kg wheat = $75.9 \times 100/115 = \text{Rs. } 66$

Using allegation method



Thus, ratio of 1st type to 2nd type of wheat mixed = 6 : 18 = 1 : 3

$$\Rightarrow x/81 = 1/3$$

$$\Rightarrow x = 27 \text{ kg}$$

$\therefore$ 27 kg of wheat costing Rs. 84 per kg must be mixed.

59. Answer: b

Explanation:

Average height of A, B, & C = 148

$$\text{So, } A + B + C = 148 \times 3 = 444 \quad \text{-----(1)}$$

Average height of A & B = 136

$$\text{So, } A + B = 136 \times 2 = 272 \quad \text{-----(2)}$$

Average height of B & C = 125

$$\text{So, } B + C = 125 \times 2 = 250 \quad \text{-----(3)}$$

Subtract equation (2) from equation (1)

$$A + B + C - A - B = 444 - 272$$

$$\Rightarrow C = 172$$

Putting value of C in equation (3), we get

$$B + 172 = 250$$

$$\therefore B = 250 - 172 = 78 \text{ cm}$$

60. Answer: d

Explanation:

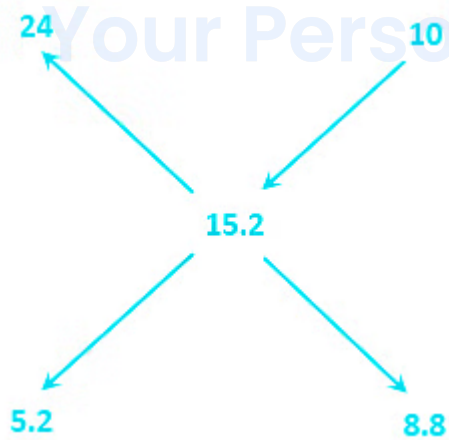
$P = 17500$, $SI = 13300$, & $T = 5$ years

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

$$\Rightarrow 13300 = (17500 \times r \times 5)/100$$

$$\Rightarrow r = 15.2\%$$

Using allegation method



$$\therefore \text{Required ratio} = 5.2 : 8.8 = 13 : 22$$

61. Answer: d

Explanation:

Let total articles = 100

And, total CP of articles = Rs. 100

If 60% of total articles are sold at a loss of 50% and remaining articles are sold at a profit of 50%

So, SP of 60 articles = $60 \times 50/100 = 30$

And, SP of 40 article = $40 \times 150/100 = 60$

Total SP of all article = $60 + 30 = 90$

$\therefore \text{loss\%} = (\text{CP} - \text{SP})/\text{CP} \times 100 = (100 - 90) / 100 \times 100 = 10\%$

62. Answer: d

Explanation:

Given:

The successive discount are 20%, 30% and 40%.

Formula:

Successive discount = $X + Y - (XY)/100$

Where,

X = First discount

Y = Second discount

Calculation:

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

$$\Rightarrow 20 + 30 - 600/100$$

$$\Rightarrow 44\%$$

Now, again

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

$$X = 44\%, Y = 40\%$$

$$\Rightarrow 44 + 40 - (44 \times 40)/100$$

$$\Rightarrow 84 - 176/10$$

$$\Rightarrow 84 - 17.6 = 66.4\%$$

$\therefore$ The single equivalent discount is 66.4%.

★ Alternate Method

Let MP be 100

$$\text{SP after discount} = 100 \times 80/100 \times 70/100 \times 60/100 = 33.6$$

We know, discount = MP - SP

$$\text{So, net discount} = 100 - 33.6 = 66.4$$

$$\therefore \text{Discount \%} = 66.4/100 \times 100 = 66.4\%$$

63. Answer: b

Explanation:

$$\sqrt{676} + \sqrt{6.76} + \sqrt{0.0676} = 27.76$$

$$\Rightarrow 26 + 2.6 + 0.26 = 27.7$$

$$\Rightarrow 28.86 = 27.7$$

So, statement 1 is false.

$$\sqrt{339 + 36 + 49 + 81} = 19$$

$$\Rightarrow \sqrt{339 + 6 + 7 + 9} = 19$$

$$\Rightarrow \sqrt{361} = 19$$

$$\Rightarrow 19 = 19$$

So, statement 2 is true.

64. Answer: c

Explanation:

Let efficiency of S be 100

Thus, Efficiency of R = $100 \times 180/100 = 180$

Ratio of their efficiency R : S = $180 : 100 = 9 : 5$

If S alone can make a book in 90 days,

So, Total work = $90 \times 5 = 450$

$\therefore$ R alone can complete the book = $450/9 = 50$ days

65. Answer: d

Explanation:

Given, speed of the car = 66 km/h and diameter of wheel = 21 cm

So, radius of wheel (r) = $21/2 = 10.5$ cm

As we know, Distance = speed $\times$ time

Distance covered by car in 36 sec = $66 \times \frac{5}{18} \times 36 = 660$ meter

As we know, circumference of circle = $2\pi r$

Thus, Circumference of wheel = $2 \times \frac{22}{7} \times \frac{21}{2} = 66$ cm

$\therefore$ No of revolutions = distance / (circumference of wheel) = $(660 \times 100) / 66 = 1000$

66. Answer: c

Explanation:

Let the value be x

$\Rightarrow x = 88\% \text{ of } 1125 + 20\% \text{ of } 425$

$\Rightarrow x = 1125 \times \frac{88}{100} + 425 \times \frac{20}{100}$

$\therefore x = 990 + 85 = 1075$

67. Answer: a

Explanation:

$\therefore$ The most number of employees belong to E department = 150

68. Answer: d

Explanation:

$\therefore$ Total number of employees of the company = $60 + 60 + 30 + 90 + 150 + 30 + 120 = 540$

69. Answer: b

Explanation:

Total employees of the company = 540 and department B = 60 employees

$\therefore$ Measure of the central angle = $360^\circ/540 \times 60 = 40^\circ$

70. Answer: d

Explanation:

We know, total employees of the company = 540

Average monthly salary of the employees of the company = 20,000

We know sum of the salary = average salary $\times$ total number of employees

So, sum of the monthly salary of the employees of the company = $20,000 \times 540 = 108,00,000$

$\therefore$ Total of the salaries 108 lakhs paid to all the employees of the company.

71. Answer: b

Explanation:

We know, area of an equilateral triangle = $\sqrt{3}/4 \times a^2$

$\Rightarrow \sqrt{3}/4 \times a^2 = 49\sqrt{3}$

$\therefore$ the side of the triangle (a) = 14

72. Answer: b

Explanation:

We know, the measure of an exterior angle of a regular polygon of n side = $360^\circ/n$

So, the measure of an exterior angle of a regular polygon of 6 sides = $360^\circ/6 = 60^\circ$

73. Answer: a

Explanation:

We know, total surface area of a hemisphere = $3\pi r^2$

So, total surface area of a hemisphere = 1039.5

$$\Rightarrow 3\pi r^2 = 1039.5$$

$$\Rightarrow 3 \times \frac{22}{7} \times r^2 = 1039.5$$

$$\Rightarrow r^2 = 110.25$$

$$\Rightarrow r = 10.5$$

$$\therefore \text{Diameter of the hemisphere} = 10.5 \times 2 = 21 \text{ cm}$$

74. Answer: c

Explanation:

We know, sum of all the angles of a triangle is 180.

$$\Rightarrow \angle D + \angle E + \angle F = 180^\circ$$

$$\Rightarrow \angle D + 90 + 30 = 180^\circ$$

$$\Rightarrow \angle D = 60^\circ$$

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

75. Answer: d

Explanation:

Given, $\angle Q = 90$, $\tan P = 24/7$ and $PQ = 14$ cm

$\tan P = \text{perpendicular/base} = QR/PQ = 24/7$

$\Rightarrow 24/7 = QR/PQ$

$\Rightarrow QR = 24/7 \times 14 = 48$ cm

$\therefore$ the length of side $QR = 48$ cm

76. Answer: b

Explanation:

A price ceiling	It is a situation when the price charged is more than or less than the equilibrium price by market.
A price floor	A price floor is the lowest legal price that can be sold commonly. It is used by the government to prevent prices from being too low.
Equilibrium pricing	It is the market price where the quantity of goods supplies is equal to the number of goods in demand.

So, the agricultural price support program is an example of a price floor.

77. Answer: a

Explanation:

The correct answer is the Iron and Steel Industry.

★ Key Points

- The iron and Steel Industry was the first modern industry to develop in India.
- **India is the largest producer of raw steel and the largest producer of sponge iron in the world .**
- The **economic reforms of 1991** open new doors for these industries, licensing requirements were abolished and **automatic approval** of foreign equity investment up to **100%** was granted.
- India is **3rd largest finished steel consumer in the world after China and USA.**
- The government has taken several steps to boost the sector including the introduction of **National Steel Policy 2017**.

★ Additional Information

- **China** is the world's largest crude steel producer followed by **India, Japan, and the USA in 2018 .**
- Iron & steel are **freely importable and exportable products.**
- The cottage industry is **one of the oldest industries in India** , which traces its roots from ancient times.

Your Personal Exams Guide

78. Answer: b

Explanation:

- Victoria lake lies on the Equator in Africa continent.
- Lake Victoria is the largest lake in Africa and chief reservoir of the Nile lying mainly in Tanzania and Uganda but bordering on Kenya.
- Lake Victoria is the largest freshwater body in Africa and second largest in the world, smaller only than lake superior, which is one of North America's Great Lakes.

79. Answer: a

Explanation:

- Jog falls, Gerosoppa falls or jog falls is the second-highest plunge waterfall in India located in Karnataka.
- Jog falls is created by the Sharavathi river dropping 253m (830 ft).
- **Plunge waterfall** it means water descends vertically, losing contact with bedrock surface.

80. Answer: d

Explanation:

Shaikh Abu al-Faiz ibn Mubarak was popularly known for his pen-name Faizi.

He was a Persian poet and scholar of late medieval India and he lived in the court of Akbar.

81. Answer: c

Explanation:

The correct answer is Panvar

- After the failure of August's offer, Gandhi decided to initiate a limited satyagraha on an individual basis by a few selected individuals in every locality.
- The aims of launching individual satyagraha were:
 - to show that nationalist patience was not due to weakness;
 - to express people's feeling that they were not interested in the war they made no distinction between Nazism and the double autocracy that ruled

India;

- to give another opportunity to the Government to accept Congress' demands peacefully.
- Vinoba Bhave was the first to offer the satyagraha and Nehru, the second.
- By May 1941, 25,000 people had been convicted for individual civil disobedience.
- In **Pavnar** the leader of the Individual Satyagraha movement, Acharya Vinoba Bhave started this movement.
- The individual Satyagraha movement was not to seek independence but to affirm the rights of speech.
- Vinayak Narahari Vinoba Bhave was an Indian advocate of nonviolence and human rights and also best known for the **Bhoodan** movement.

82. Answer: c

Explanation:

The **Upanishads** are ancient Sanskrit texts that contain some of the central philosophical concepts and ideas of Hinduism, some of which are shared with religious traditions like Buddhism and Jainism.

The **Katha Upanishad** is one of the **primary Upanishads** which was embedded in the last short eight sections of Katha school of the Krishna Yajurveda.

The well-known dialogue between Nachiketa and Yama is mentioned in Kathopanishad.

83. Answer: b

Explanation:

In January 2018 China broke India's monopoly in providing Internet access to Nepal by becoming country's second Internet service provider.

New terrestrial fibre cable was launched in 2016 by CTG (China Telecom Global) will now connect Nepal and China through the **Jilong border gateway**.

84. Answer: a

Explanation:

Gajendra Chauhan is **NOT** a recipient of Sangeet Natak Akademi's fellowships (Akademi Ratna) in 2018.

The **Sangeet Natak Akademi** fellowship is an Indian honour awarded for **Performing Arts** in India.

It is most prestigious and rare honour conferred by the Akademi and is restricted to 40 individuals at any given time.

85. Answer: b

Explanation:

The **Boxer Rebellion**, Boxer uprising of Yihetuan Movement was a violent anti-foreign, anti-colonial and anti-Christian uprising that took place in China between 1899 and 1901 towards the end of the Qing dynasty.

86. Answer: b

Explanation:

Positive helium ion is formed when helium atom loses one electron.

It becomes positively charged when helium atom loses an electron and it forms a cation.

87. Answer: b

Explanation:

Apart from proposing an atomic theory, John Dalton researched Colour Blindness.

His first paper on "Extraordinary facts relating to the vision of colours" in which he postulated that storage in colour perception was caused by discolouration of the liquid medium of the eyeball.

88. Answer: d

Explanation:

There are more than 15 unitary features in Indian Constitution some of them are

Single Constitution for State and Centre

Single Citizenship

Integrated Judiciary.

89. Answer: c

Explanation:

- Article 360 states that if the President is convinced that a situation has arisen whereby the financial stability or any part thereof is threatened, President may declare a state of financial emergency.
 - Article 360 of the Indian Constitution empowers the President of India to proclaim a Financial Emergency.
-

90. Answer: d

Explanation:

Organism	Feature of fission
Amoeba	It has no definite shape so its cell division can take place in any plane it is called irregular binary fission.
Leishmania	It is a whip-like structure at one end of cell hence binary fission occurs in a definite orientation.
Plasmodium	A cell divided into many cells during reproduction in Plasmodium by multiple fission

91. Answer: b

Explanation:

Meristem is the tissue in the most plants containing undifferentiated cells found in zones of the plant where growth can take place.

A group of cells which are similar in origin, similar in structure and similar in function are called **Permanent** tissue.

Dividing capacity is the basis of classifying various plant tissues as meristematic tissue and permanent tissue.

92. Answer: b

Explanation:

- The project **DARPAN** (Digital Advancement of Rural Post Office for a New India) launched by Minister of Communications **Shri. Manoj Sinha** in December 2017.
 - It is to improve the quality of service, add value to services and achieve financial inclusion of un-banked rural population.
-

93. Answer: c

Explanation:

Parasitic plants are often referred to as curious plants, as they steal their nutritional needs from the host.

Gleadovia Konyakianorum is a holoparasite (complete parasite) plant that derives its entire nutritional requirement from the host plant which is a *Strobilanthes* species white in colour.

Naga is a vaguely defined umbrella term for several indigenous communities in North-East India and Upper Burma.

94. Answer: c

Explanation:

The centre to be built is Global IT centre in Belapur in Navi Mumbai. It will be the largest innovation centre by any financial services company in the country, the official claimed.

95. Answer: d

Explanation:

To deal with cyber crimes such as financial frauds, circulation of communal and pornographic contents, the Union Home Ministry planned to set up an apex coordination centre and has asked States to establish a similar mechanism in every district.

96. Answer: c

Explanation:

Concept:

- Force: Force is a push or pull on an object. A force can cause an object to accelerate, slow down, remain in place, or change shape.

Force exerted = mass x acceleration

$$F = m \times a$$

$$\text{Acceleration} = (\text{Final velocity}(v) - \text{Initial velocity}(u)) / \text{time}$$

$$a = \frac{v-u}{t}$$

Where F is the force exerted on the body, m is mass of the body, a is the acceleration of the body, v is final velocity, u is initial velocity and t is time.

Calculation:

Given,

Mass of body = 6 kg.

Change in velocity = (18 - 6) = 12 m/s

Time= 3 sec

Acceleration = $12 / 3 = 4 \text{ m/s}^2$

Force = mass $\times$ acceleration

Force = $6 \times 4 = 24$ Newton.

Hence the correct option is 24 Newton

97. Answer: b

Explanation:

Average Power = Total energy consumed/ Total time taken

$$P_{\text{avg}} = \Delta W / \Delta t$$

Power is the rate of doing work and the amount of energy transferred per unit time. It is a scalar quantity. The unit is joule per second (J/s).

98. Answer: b

Explanation:

The correct answer is option 2 i.e 70 %

About **75%** of the Earth's surface is water-covered and the oceans hold for about 96.5% of all Earth's water.

Water also exists in the air as water vapour in rivers and lakes, icecaps and glaciers and in the ground as soil moisture.

Components	Important information
Lithosphere	It is the outer part of the Earth and other celestial bodies. It covers the rocky part of the body. On Earth, it is considered as the crust and the rigid upper mantle part .
Hydrosphere	It is the component of the Earth which covers about 70% of the surface. It includes the oceans, seas, lakes, ponds, rivers, and streams.
Biosphere	It is the ecosystem that contains all the living beings and their relationship with nature. The term "Biosphere" was coined by geologist Eduard Suess in 1875.
Atmosphere	It is kind of a blanket that contains gases and surrounds the Earth from outside. Where we live, we breathe, we act and we do daily activities are all part of the atmosphere.

99. Answer: d

Explanation:

World Champion **Lewis Hamilton** raced in Formula One for Mercedes.

In 2018 IPL auctions, Mumbai Indians retained Hardik Pandya.

Chen Meng won the Women's Singles title at the Seamaster 2017 ITTF World Tour Grand Finals in Astana Kazakhstan in December 2017.

100. Answer: a

Explanation:

- **Mozilla Firefox** is not an operating system.
- Mozilla Firefox is a **free open-source web browser** developed by Mozilla Foundation. Firefox is available for Windows, macOS, Linux and BSD operating systems.
- A web browser is a **software application** for accessing the information on the World Wide Web.

prepp

Your Personal Exams Guide