

Prepp

Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPS



UPTET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC MTS Previous Year Paper (Held on: 21 Oct 2017 Shift 2)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General English	25	25	0.25	1
2	General Intelligence & Reasoning	25	25	0.25	1
3	Numerical Aptitude	25	25	0.25	1
4	General Awareness	25	25	0.25	1

- 1.) A total of 90 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

General English

1. In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and click the option corresponding to it. If the sentence is free from error, click the "No error" option. (+1, -0.25)

The former first lady designed (1)/ it herself as a weekend (2)/ retreat away from White House. (3)/ No error (4)

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

2. In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and click the option corresponding to it. If the sentence is free from error, click the "No error" option. (+1, -0.25)

Traditionally, fuel prices were determined (1)/ on a cost-plus basis, which led domestic prices (2)/ to fall at line with the cost of inputs like crude oil. (3)/ No error (4)

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

3. The sentence(s) given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it. (+1, -0.25)

My father _____ tomorrow.

- a. has arriving
- b. is arriving
- c. had arrived
- d. was arriving

-
4. The sentence(s) given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it. (+1, -0.25)

She has already _____ the floor.

- a. clean
- b. been clean
- c. cleaning
- d. cleaned

-
5. In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word and click the button corresponding to it. (+1, -0.25)

Profane

- a. Coarse
 - b. Sweet
 - c. Moral
 - d. Dejected
-

6. In the following question, out of the four alternatives, choose the word which (+1, -0.25) best expresses the meaning of the given word and click the button corresponding to it.

Lethal

- a. Sharp
 - b. Malignant
 - c. Wholesome
 - d. Kind
-

7. In the following question, out of the four alternatives, choose the word which (+1, -0.25) best expresses the meaning of the given word and click the button corresponding to it.

Respite

- a. Hiatus
- b. Continuous
- c. Thirst
- d. Instead

8. In the following question, out of the four alternatives, choose the word which is opposite in meaning to the given word and click the button corresponding to it. (+1, -0.25)

Acquitted

- a. Blame
- b. Deliver
- c. Excuse
- d. Relieve

9. Select the most appropriate antonym of the word (+1, -0.25)

Compulsory

- a. Binding
- b. Necessary
- c. Optional
- d. Forced

10. In the following question, out of the four alternatives, choose the word which is opposite in meaning to the given word and click the button corresponding to it. (+1, -0.25)

Bridle

- a. Release
- b. Control

c. Leash

d. Curb

-
11. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the Idiom/ Phrase. (+1, -0.25)

Hail from

a. Out of the game

b. Very confident

c. To come from

d. Calm and composed

-
12. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the Idiom/ Phrase. (+1, -0.25)

A shot in the dark

a. To maintain one's opinion

b. Born in poor family

c. An attempt that is not expected to succeed or very little chance of working

d. To delay a little longer

-
13. Below are three alternatives which may be used to improve the sentence by replacing the words given in the brackets. You may choose option 1, 2 or 3. In case no improvement is needed, choose 4. (+1, -0.25)

This slide (unto) political regression is particularly troubling, as the country is still recovering from the memory of the genocide.

- a. Into
- b. Onto
- c. Upto
- d. No improvement

-
14. Below are three alternatives which may be used to improve the sentence by replacing the words given in the brackets. You may choose option 1, 2 or 3. In case no improvement is needed, choose 4. (+1, -0.25)

In recent years his autocratic tendencies have become (increasing) more pronounced.

- a. Increase
- b. Increased
- c. Increasingly
- d. No improvement

-
15. In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. (+1, -0.25)

A person who writes for newspapers and magazines

- a. Journalist
- b. Biologist
- c. Alchemist

d. Activist

16. In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. (+1, -0.25)

Found all over the world

- a. Universal
 - b. Appraisal
 - c. Colossal
 - d. Dispersal
-

17. In the following question, four words are given out of which one word is correctly spelt. Find the correctly spelt word. (+1, -0.25)

- a. Fabulous
 - b. Faebulous
 - c. Fabulus
 - d. Fabeulous
-

18. Find the correctly spelt word. (+1, -0.25)

- a. Geometry
- b. Gemetry
- c. Goemetry

d. Geometrey

19. 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 sentence. (+1, -0.25)

The next morning

P: it was snowing

Q: we woke up

R: and found that

a. QRP

b. PRQ

c. RPQ

d. RQP

20. 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 sentence. (+1, -0.25)

Bachendri pal

P: Indian woman to

Q: reach the peak of Mt. Everest

R: became the first

a. QRP

b. RPQ

c. QPR

d. PQR

21. 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. (+1, -0.25)

Internet has revolutionized the living style and working style of the _____ being. It has reduced a man's effort and time thus very beneficial to all for gaining knowledge as well as _____ income at less input. It has ability to _____ information within no time at the doorstep. Basically internet is a network of networks which connects various computers to handle from one place. Now a day, internet has spread its _____ at every nook and corner all over the world. Accessing internet requires a telephone line, a computer and a _____.

working style of the _____ being.

a. human

b. non-living

c. original

d. real

22. 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. (+1, -0.25)

Internet has revolutionized the living style and working style of the _____ being. It has reduced a man's effort and time thus very beneficial to all for gaining knowledge as well as _____ income at less input. It has ability to _____ information within no time at the doorstep.

Basically internet is a network of networks which connects various computers to handle from one place. Now a day, internet has spread its _____ at every nook and corner all over the world. Accessing internet requires a telephone line, a computer and a _____.

as well as _____ income

- a. increasing
- b. relating
- c. decreasing
- d. abating

23. 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. (+1, -0.25)

Internet has revolutionized the living style and working style of the _____ being. It has reduced a man's effort and time thus very beneficial to all for gaining knowledge as well as _____ income at less input. It has ability to _____ information within no time at the doorstep. Basically internet is a network of networks which connects various computers to handle from one place. Now a day, internet has spread its _____ at every nook and corner all over the world. Accessing internet requires a telephone line, a computer and a _____.

ability to _____ information

- a. curtail
- b. delete
- c. provide

d. erase

24. 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. (+1, -0.25)

Internet has revolutionized the living style and working style of the _____ being. It has reduced a man's effort and time thus very beneficial to all for gaining knowledge as well as _____ income at less input. It has ability to _____ information within no time at the doorstep. Basically internet is a network of networks which connects various computers to handle from one place. Now a day, internet has spread its _____ at every nook and corner all over the world. Accessing internet requires a telephone line, a computer and a _____.

its _____ at every nook

- a. removes
- b. emotion
- c. leaves
- d. effects

25. 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. (+1, -0.25)

Internet has revolutionized the living style and working style of the _____ being. It has reduced a man's effort and time thus very beneficial to all for gaining knowledge as well as _____ income at less input. It has ability to _____ information within no time at the doorstep. Basically internet is a network of networks which connects various computers to handle from one place. Now a day, internet has spread

its_____ at every nook and corner all over the world. Accessing internet requires a telephone line, a computer and a _____.

a computer and a _____.

- a. modem
- b. rode
- c. branches
- d. modern



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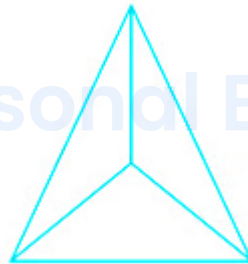
General Intelligence & Reasoning

26. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives. (+1, -0.25)

5	6	4
7	3	9
4	8	8
16	17	?

- a. 21
- b. 20
- c. 23
- d. 22

27. How many triangles are there in the given figure? (+1, -0.25)



- a. 3
- b. 4
- c. 5
- d. 6

28. A word is represented by only one 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 numbered from 0 to 4 and that of matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'A' can be represented by 24, 95, etc., and 'M' can be represented by 11, 66, etc. Similarly, you have to identify the set for the word "COULD"

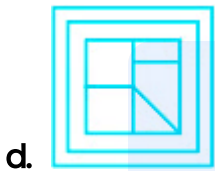
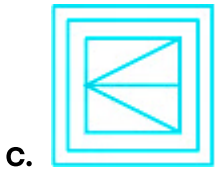
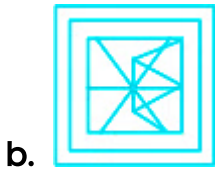
Matrix - I					
	0	1	2	3	4
0	T	C	W	G	K
1	K	M	O	P	S
2	I	P	X	K	A
3	F	H	J	L	N
4	A	R	Q	V	X

Matrix – II					
	5	6	7	8	9
5	Z	O	D	C	X
6	G	M	N	H	V
7	E	O	Y	K	T
8	D	F	W	L	R
9	A	E	U	N	P

- a. 58, 12, 98, 86, 85
- b. 01, 56, 97, 33, 57
- c. 58, 76, 88, 88, 24
- d. 02, 02, 98, 88, 00

29. From the given answer figures, select the one in which the question figure is hidden/embedded. (rotation is allowed) (+1, -0.25)



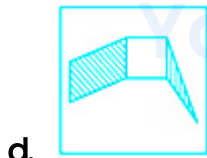
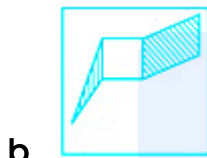


30. Which answer figure will complete the pattern in the question figure?

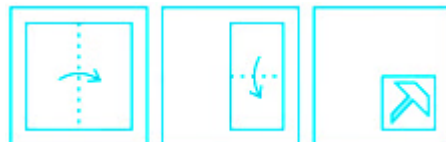
(+1, -0.25)



31. If a mirror is placed on the line AB, then which of the answer figures is the right image of the given figure? (+1, -0.25)



32. A piece of paper is folded and punched as shown in answer figures, indicate how it will appear when opened? (+1, -0.25)





33. What will come in place of question mark (?) in the given equation? (+1, -0.25)

$$43 ? 9 ? 3 ? 11 ? 3 = 137$$

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

34. If $14 @ 13 @ 9 = 91314$ and $5 @ 15 @ 11 = 11155$, then $6 @ 12 @ 3 = ?$ (+1, -0.25)

- a. 1236
- b. 3126

c. 6312

d. 3612

35. Arrange the given words in the sequence in which they occur in the dictionary. (+1, -0.25)

1. Raid

2. Rain

3. Ring

4. Race

5. Range

a. 41253

b. 41235

c. 42153

d. 42135



36. In the following question, select the missing number from the given series. (+1, -0.25)

5, 9, 17, ?, 45, 65

a. 28

b. 29

c. 27

d. 26

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

NT, TN, PR, RP, OQ, ?

- a. OP
- b. QR
- c. QO
- d. NO

38. In the following question, select the odd word from the given alternatives. (+1, -0.25)

- a. Ball
- b. Bat
- c. Stumps
- d. Goalkeeper

39. In the following question, select the odd number from the given alternatives. (+1, -0.25)

- a. 169
- b. 121
- c. 289
- d. 258

40. In the following question, select the odd letters from the given alternatives.

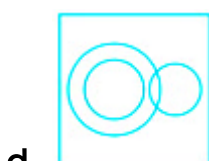
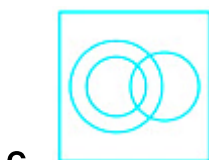
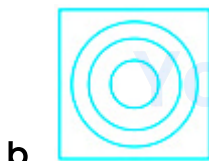
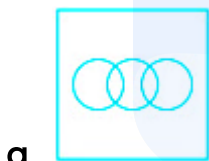
(+1, -0.25)

- a. fr
- b. bn
- c. cp
- d. dp

41. Identify the diagram that best represents the relationship among the given classes.

(+1, -0.25)

Females, Mother, Director



d.

42. In the following question, select the related word pair from the given alternatives. (+1, -0.25)

Distance : Kilometre :: ? : ?

- a. Writer : Pen
- b. Time : Hours
- c. Time : Metre
- d. Wood : Weight

43. In the following question, select the related number from the given alternatives. (+1, -0.25)

11 : 121 :: 20 : ?

- a. 441
- b. 400
- c. 289
- d. 200

44. In the following question, select the related letters from the given alternatives. (+1, -0.25)

AC : DG :: MQ : ?

- a. MR
- b. PU

c. PS

d. PR

45. In the following question, select the word which cannot be formed using the letters of the given word. (+1, -0.25)

REPULSIVE

a. PULSE

b. USED

c. LIVE

d. SURE

46. In a row of 40 students, A is 13th from left end. What is his place from the right end? (+1, -0.25)

a. 27

b. 28

c. 29

d. 30

47. If the ratio of the present ages of P and Q is 3 : 5 and the sum of their ages 4 years ago was 64, then what was the ratio of their ages 4 years ago? (+1, -0.25)

a. 23 : 41

b. 27 : 49

c. 33 : 52

d. 41 : 73

48. In the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusion logically follows the given statements. (+1, -0.25)

Statements:

I. Some C are D.

II. Some B are C.

Conclusions:

I. Some D are C.

II. No B is D.

a. Only conclusion (I) follows.

b. Only conclusion (II) follows.

c. Both conclusion follow.

d. Neither conclusion (I) nor conclusion (II) follows.

49. In a certain code language, "MIND" is written as "PLQG". How is "LAKE" written in that code language? (+1, -0.25)

a. ODNH

b. ODMH

- c. NDMG
- d. OCNH

50. In a certain code language, "FOX" is written as "50" and "BOX" is written as "46". How is "FAX" written in that code language? (+1, -0.25)

- a. 38
- b. 34
- c. 36
- d. 32



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Numerical Aptitude

51. What is the value of $(a^{-12} \times b^{12}) \times (a^{18} \times b^{-18})$? (+1, -0.25)

- a. a^6b^6
 - b. a^6b^4
 - c. $a^{12}b^6$
 - d. a^6/b^6
-

52. Which of the following number is completely divisible by 20? (+1, -0.25)

- a. 24570
 - b. 34580
 - c. 33410
 - d. 444430
-

53. If $543 \times 545 \times 546$ is divided by 6, then what will be the remainder? (+1, -0.25)

- a. 3
 - b. 0
 - c. 5
 - d. 1
-

54. What is the value of $(\sqrt{5} + 2) / (\sqrt{5} - 2)$? (+1, -0.25)

- a. $9 + 4\sqrt{5}$
- b. $9 - 4\sqrt{5}$
- c. $7 + 4\sqrt{5}$
- d. $9 + 2\sqrt{5}$

55. What is the value of $31 + 32 + \dots + 50$?

(+1, -0.25)

- a. 575
- b. 465
- c. 1275
- d. 810

56. Which of the following is greatest number?

(+1, -0.25)

- a. 3^{2^3}
- b. 3^{4^2}
- c. 3^{3^2}
- d. 3^{2^2}

57. Two pipes P and Q can fill the tank alone in 60 and 90 hours respectively. If they are opened together, then in how many hours will the tank be filled?

(+1, -0.25)

- a. 35
- b. 32

c. 36

d. 30

58. Pipe A can fill a tank in 20 hours and pipe B can fill the same tank in 24 hours. Pipe C can empty the same tank in 12 hours. If all the pipes are opened together, then what portion of the tank will be filled after 12 hours? (+1, -0.25)

a. $\frac{1}{10}$

b. $\frac{1}{5}$

c. $\frac{1}{15}$

d. $\frac{9}{11}$

59. What is the area (in cm^2) of an equilateral triangle whose side is 16 cm? (+1, -0.25)

a. $60\sqrt{3}$

b. $64\sqrt{3}$

c. 128

d. 60

60. A shop - keeper offers 30% discount on bags which have been marked 60% above the cost price. Rahul bought the bag for Rs. 672. What was the cost price (in Rs) of the bag? (+1, -0.25)

a. 580

b. 600

c. 550

d. 610

61. A merchant purchases a watch for Rs 540 and fixes its marked price in such a way that after allowing a discount of 10%, he earns a profit of 35%. What is the marked price (in Rs) of the watch? (+1, -0.25)

a. 790

b. 810

c. 750

d. 840

62. The ratio of two numbers is 7 : 12. If their difference is 60, then what is the smallest number? (+1, -0.25)

a. 144

b. 84

c. 96

d. 196

63. Rs. 2160 is divided among A, B and C in the ratio 2 : 3 : 5 respectively. What is the difference (in Rs.) between the shares of A and B? (+1, -0.25)

a. 216

b. 108

c. 154

d. 312

64. The average of 10 numbers is 9.5. If a number 5 is removed, then what will be the new average? **(+1, -0.25)**

a. 9.75

b. 10

c. 10.25

d. 9

65. An article is sold at a profit of 30%. If the selling price is doubled, then what will be the profit percentage? **(+1, -0.25)**

a. 30

b. 130

c. 160

d. 100

66. A man sold 400 chairs and had a gain equal to selling price of 50 chairs. What is his profit percentage? **(+1, -0.25)**

a. 14.28

b. 25

c. 11.11

d. 10

67. 1000 is first increased by 10% and then it is decreased by 30%. What is the final value? (+1, -0.25)

a. 850

b. 770

c. 820

d. 760

68. Out of the total bags, 30% of bags are green coloured. 30% of remaining bags are red coloured. 40% of remaining bags are yellow coloured. The remaining 1176 bags are blue coloured. How many total bags are there? (+1, -0.25)

a. 3000

b. 4000

c. 5000

d. 6000

69. The speed of a boat in still water is 8 km/hr. It covers a distance of 40 km upstream in 8 hours. What is the speed (in km/hr) of the stream? (+1, -0.25)

a. 2

b. 3

c. 4

d. 1.5

70. A 400 metres long train crosses a bridge 600 metres long in 50 seconds. **(+1, -0.25)**
What is speed (in km/hr) of the train?

a. 75

b. 72

c. 74

d. 78

71. A sum becomes 4 times in 2 years at compound interest. In how many years the same sum will become 16 times? **(+1, -0.25)**

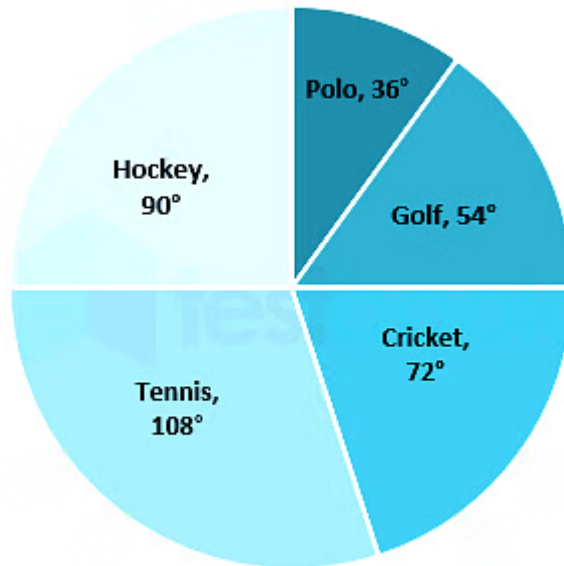
a. 3

b. 4

c. 2

d. 1

72. **Directions:** The pie chart given below shows the number of students who play five sports like Hockey, Tennis, Cricket, Golf and Polo. The total number of students is 1080. **(+1, -0.25)**

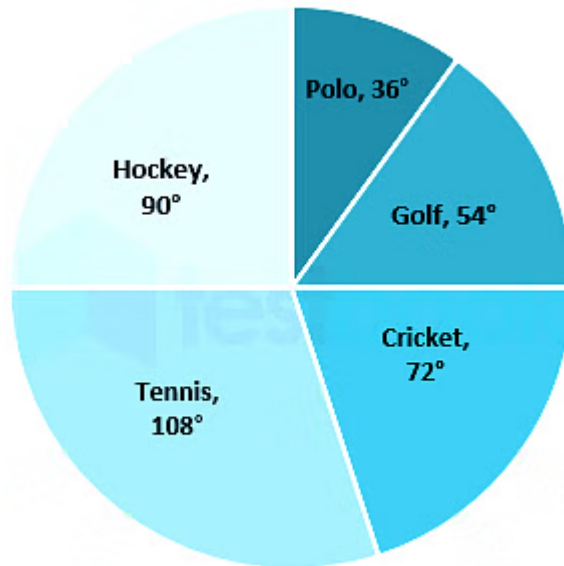


What is the average number of students playing Tennis and Cricket?

- a. 280
- b. 270
- c. 240
- d. 360

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73. **Directions:** The pie chart given below shows the number of students who play five sports like Hockey, Tennis, Cricket, Golf and Polo. The total number of students is 1080. (+1, -0.25)

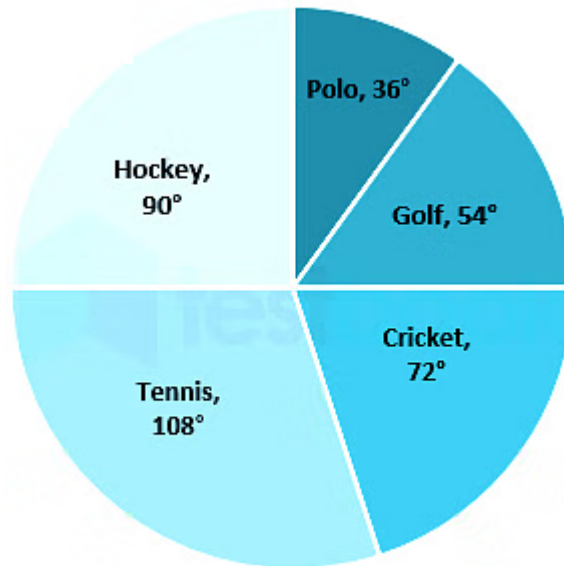


What is the difference between the number of students who play Tennis and those who play Polo?

- a. 114
- b. 288
- c. 180
- d. 216

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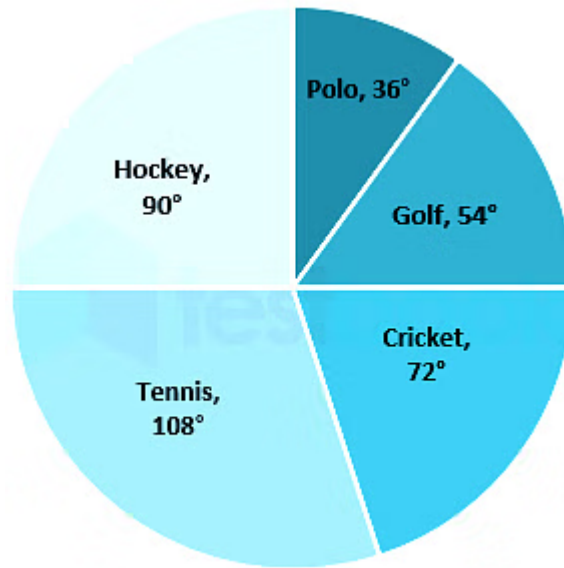
74. **Directions:** The pie chart given below shows the number of students who play five sports like Hockey, Tennis, Cricket, Golf and Polo. The total number of students is 1080. (+1, -0.25)



In which of the following group of sports, the sum of the number of students who play in the first 2 groups is equal to that of the third group?

- a. Cricket, Polo, Hockey
- b. Hockey, Tennis, Golf
- c. Cricket, Polo, Tennis
- d. Hockey, Cricket, Tennis

75. **Directions:** The pie chart given below shows the number of students who play five sports like Hockey, Tennis, Cricket, Golf and Polo. The total number of students is 1080. (+1, -0.25)



What is the total number of students who play either Hockey or Cricket?

- a. 270
- b. 216
- c. 576
- d. 486

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General Awareness

76. Every production is organised by combining land, labour, physical and human capital which are known as _____ . (+1, -0.25)

- a. Factors of Production
 - b. Organisations
 - c. Economic activities
 - d. Industries
-

77. Market activities in an economy involve _____ . (+1, -0.25)

- a. production for self-consumption
 - b. activities performed for Charity
 - c. activities performed for Pay or Profit
 - d. none of these
-

78. Who among the following has the power to dissolve Lok Sabha? (+1, -0.25)

- a. President
 - b. Prime Minister
 - c. Chief Justice of India
 - d. Judge of Supreme Court
-

79. Part IV A of the Indian Constitution describes about _____ . (+1, -0.25)

- a. Fundamental Duties
 - b. Fundamental Rights
 - c. Supreme Court
 - d. Election Commission
-

80. In Indus Valley Civilization, site 'Dholavira', has been located in which state of India? (+1, -0.25)

- a. Rajasthan
 - b. Punjab
 - c. Gujarat (Rann of Kutch)
 - d. Haryana
-

81. In which year did Indian National Congress reunite after the famous 'Surat split'? (+1, -0.25)

- a. 1910
 - b. 1916
 - c. 1921
 - d. 1923
-

82. Our Solar system is a part of which galaxy? (+1, -0.25)

- a. Andromeda
 - b. Triangulum
 - c. Milky Way
 - d. Bode's
-

83. The 'Alps Mountains' are which type of mountains? (+1, -0.25)

- a. Old Fold Mountains
 - b. Young Fold Mountains
 - c. Block Mountains
 - d. Volcanic Mountains
-

84. Which of the following is produced from the Pancreas? (+1, -0.25)

- a. Insulin
 - b. Bile
 - c. Blood
 - d. Urine
-

85. Which part of the plant helps in holding the plant firmly in the soil? (+1, -0.25)

- a. Leaves
- b. Fruits

- c. Stem
- d. Roots

86. Percentage of O₂ present in inhaled air in human is about _____ . (+1, -0.25)

- a. 21%
- b. 78%
- c. 41%
- d. 2%

87. The SI unit of Pressure is _____ . (+1, -0.25)

दबाव की एसआई इकाई _____ है।

- a. Newton
- b. Watt
- c. Pascal
- d. Joule

88. The image formed by a plane mirror is _____ . (+1, -0.25)

समतल दर्पण द्वारा बना प्रतिबिम्ब _____ होता है।

- a. real
- b. virtual

- c. diminished
 - d. inverted
-

89. What are the two major file systems in Microsoft Windows? (+1, -0.25)

- a. FAT32 and NTFS
 - b. HFS and UFS
 - c. XFS and EXT3
 - d. UDF and ZFS
-

90. What is the Atomic Mass of Hydrogen? (+1, -0.25)

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

91. If the pH of a solution is 7, it is _____ . (+1, -0.25)

यदि किसी घोल का pH 7 है, तो यह _____ है।

- a. Acidic
- b. Neutral
- c. Basic

d. None of these

92. Forests are examples of _____ . (+1, -0.25)

- a. Natural ecosystems
 - b. Artificial ecosystems
 - c. Virtual Environment
 - d. Synthetic Environment
-

93. What is the tagline for 'Pradhan Mantri Krishi Sinchayee Yojana'? (+1, -0.25)

- a. More crop per acre
 - b. More crop per drop
 - c. More crop per gallon
 - d. More produce per drop
-

94. Sir C.V Raman is famous for _____ . (+1, -0.25)

- a. Raman diagram
 - b. Gravitational laws
 - c. Law of Refraction
 - d. Raman effect
-

95. Which among the following sports involves the use of Rackets? (+1, -0.25)

- I. Squash
 - II. Lawn-tennis
 - III. Badminton
 - IV. Table-tennis
- a. Only I and II
 - b. Only III and IV
 - c. Only I, II and III
 - d. All option is correct

-
96. The Amaravati School of Art developed under the patronage of the 'Satavahanas' of which region? (+1, -0.25)
- a. Magadha
 - b. Delhi
 - c. Andhra
 - d. Sindh

-
97. MahaChakriSirindhorn has been conferred with first "World Sanskrit Award" (+1, -0.25) belongs to which country?
- a. Pakistan
 - b. Thailand
 - c. Australia

d. China

98. Who is the author of the book named "Malgudi Days"? (+1, -0.25)

- a. R.K. Narayan
 - b. Jim Corbett
 - c. Lewis Carroll
 - d. M. K. Gandhi
-

99. Which among the following is the largest Asia-Pacific military exercise held each year? (+1, -0.25)

- a. Red Flag
 - b. Cobra Gold
 - c. Indradhanush
 - d. Simbex
-

100. Which was an operation by Indian Armed forces to foil the coup in Maldives? (+1, -0.25)

- a. Operation War
- b. Operation Muskan
- c. Operation Rahat
- d. Operation Cactus

Answers

1. Answer: c

Explanation:

'Retreat' means to go back or withdraw, which is completely irrelevant in the given sentence. 'Retreat' must be replaced by 'treat' means 'a celebration' or 'a gift'. The former first lady designed must have designed something as a 'celebration' away from (not at) White House. Since the error lies in the third part of the sentence, option 3 is the correct answer.

2. Answer: d

Explanation:

'To fall in line' is a phrase which means to agree with others. Thus, in the third part of the sentence, the preposition 'at' must be replaced by 'in' to make the sentence grammatically correct.

3. Answer: b

Explanation:

Tomorrow indicates that the speaker is talking about a fixed plan. Therefore, the present continuous tense should be used here.

So, **option 2** is the correct answer.

4. Answer: d

Explanation:

'Already' suggests that the floor has already been cleaned. Thus the present perfect tense should be used (**sub + has/have + v3 + object**). Therefore, the third form of the verb 'clean' must be used, i.e., 'cleaned'.

5. Answer: a

Explanation:

The word profane means harsh and disrespectful.

The meanings of some of the given words are as follows:

- **Coarse** => rough or harsh
- **Dejected** => sad

The word **coarse** is clearly similar in meaning to the given word.

Thus, **option 1** is the correct synonym.

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6. Answer: b

Explanation:

The word **lethal** means deadly and harmful.

The meanings of some of the given options are as follows:

Malignant => evil, harmful

Wholesome => healthy, beneficial

Thus, we can clearly see that **option 2** is the correct synonym.

7. Answer: a

Explanation:

Respite is defined as a short period of rest, or a break.

The meanings of some of the given words are as follows:

- **Hiatus** => pause, break
- **Continuous** => without any interruption
- **Instead** => as an alternative

Clearly, the word **hiatus** is similar in meaning to the given word.

Thus, **option 1** is the correct synonym.

8. Answer: a

Explanation:

The meanings of some of the given words are as follows:

Acquitted => free someone from criminal charge

Excuse => forgive

Relieve => cause a pain to become less

Thus, **option 1** expresses the opposite meaning of 'acquitted'.

9. Answer: c

Explanation:

The correct answer is Optional

★ Key Points

- The meanings of all the given words are as follows:
 - **Compulsory**: something that must be done; necessary by law or a rule
 - **Binding**: something that cannot be legally avoided or stopped
 - **Necessary**: needed in order to achieve a particular result
 - **Optional**: available to be chosen but not compulsory
 - **Forced**: done against one's wishes
- As we can see, the word ' **optional** ' best expresses the opposite meaning of 'compulsory'.
- Hence, **option 3 is correct.**

10. Answer: a

Explanation:

The correct answer is Option 1 i.e Release

★ Key Points

Let's look at the meaning of the given word and the marked option :

- **Bridle** : Put a bridle on a horse; attach a bridle. (घोड़े पर लगाम लगाना; लगाम लगाना)
- **Release** : Allow or enable to escape from; set free. (से बचने की अनुमति दें या सक्षम करें; आजाद करना।)

Hence from the given meanings, we find that both the words express the opposite meaning.

Thus, the correct answer is Option 1 Release

★ Additional Information

- **Control** : Determine the behaviour or supervise the running of. (ब्यवहार का निर्धारण करें या चलाने की निगरानी करें।)
- **Leash** : Put a leash on (a dog) (एक पट्टा रखो (एक कुत्ता))
- **Curb** : A check or restraint on something. (किसी चीज पर जाँच या संयम।)

11. Answer: c

Explanation:

'To hail from' somewhere means to originally come from a particular place. Thus option 3 is the correct answer.

12. Answer: c

Explanation:

The idiom 'a shot in the dark' means an attempt that is not expected to succeed or very little chance of working.

13. Answer: a

Explanation:

'To slide into' is a phrasal verb which means to slowly start to experience a difficult situation. The phrasal verb imparts a correct sense to the given sentence. Thus option 1 is the correct answer.

14. Answer: c

Explanation:

We need a correct form of adverb to modify the adverb 'more'. Thus, 'increasingly' is the correct answer.

15. **Answer: a**

Explanation:

A person who writes for newspapers and magazines is known as a 'journalist'. Let's see what the other terms refer to:

Activist => a person who campaigns to bring about political or social change

Alchemist => a person who practises alchemy (conversion of base metals into gold)

Biologist => an expert in or student of the branch of science concerning living organisms

16. **Answer: a**

Explanation:

If something is found all over the world, it can be said to be found universally. Thus, option 1 is the correct answer. Let's see what the other terms mean:

Appraisal => an act of assessing something or someone

Colossal => huge

Dispersal => the action or process of distributing or spreading

17. **Answer: a**

Explanation:

The word mentioned in option 1 has been spelled correctly. 'Fabulous' means 'extraordinary'.

18. **Answer: a**

Explanation:

The word mentioned in option 1 has been spelled correctly. 'Geometry' is one of the branches of Mathematics.

19. Answer: a**Explanation:**

R cannot be the first or the last part as it begins with the conjunction 'and' and ends with 'that'. It has to be the second part. Thus, options 3 and 4 are incorrect. You will get up first and then find that it is snowing and not the other way round. Thus Q should be the first part. Hence the correct sequence is QRP.

20. Answer: b**Explanation:**

R follows the first part as it has the verb in it. P follows next as 'first Indian woman' is an appropriate term. Q logically completes the sentence. Thus, RPQ is the correct order after rearrangement.

21. Answer: a**Explanation:**

'Human being' is the correct term. Thus, option 1 is the correct answer.

22. Answer: a

Explanation:

The passage mentions positive things about internet. So if less input yields more income, it's a positive thing too. Thus, 'increasing' fits best in the blank space.

Abating => decreasing

23. Answer: c

Explanation:

Internet 'provides' information, therefore option 3 is the correct answer.

24. Answer: d

Explanation:

According to the concerned sentence, internet has spread something related to it (its) at every nook and corner all over the world. Among all the given options, 'effects' fits here most appropriately.

25. Answer: a

Explanation:

The concerned sentence mentions the devices required to access internet, and the blank space must have one such device. Thus, 'modem' is the best fit answer.

26. Answer: a

Explanation:

Here, last number in a column is sum of rest three numbers in that column.

First column: $5 + 7 + 4 = 16$

Second column: $6 + 3 + 8 = 17$

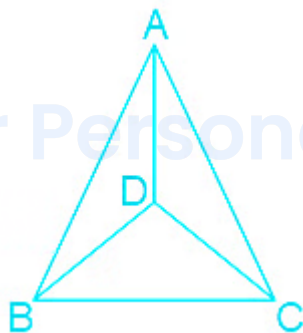
Similarly,

Third column: $4 + 9 + 8 = 21$

Hence, missing number in the diagram is 21.

27. Answer: b

Explanation:



Triangles in the given figure: ABC, ABD, ADC and BCD.

Hence, there are total 4 triangles in the given figure.

28. Answer: b

Explanation:

1) 58, 12, 98, 86, 85 à C, O, N, F, D

2) 01, 56, 97, 33, 57 à C, O, U, L, D

3) 58, 76, 88, 88, 24 à C, O, L, L, A

4) 02, 02, 98, 88, 00 à W, W, N, L, T

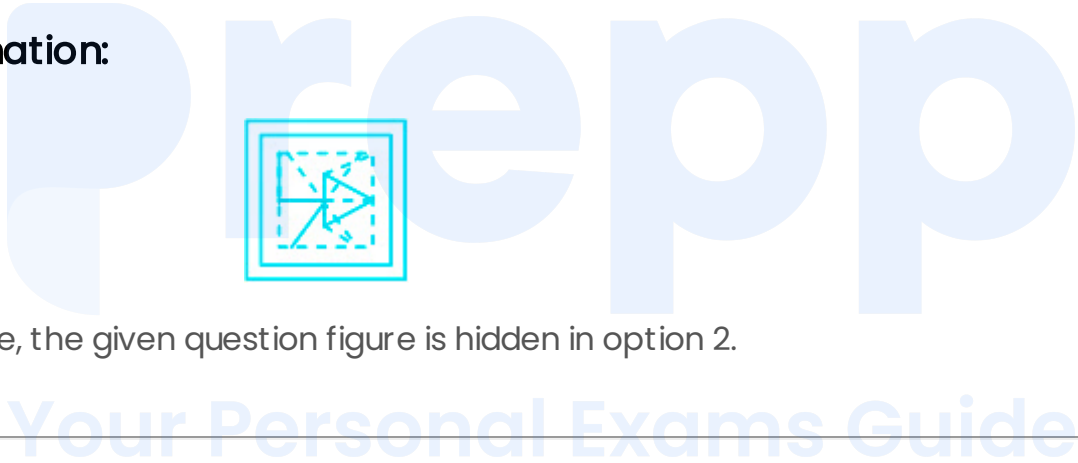
Hence, "COULD" will be represented by "01, 56, 97, 33, 57".

29. Answer: b

Explanation:



Hence, the given question figure is hidden in option 2.



30. Answer: b

Explanation:

The figure required to complete the pattern should have two squares at right side and one circle and left side.

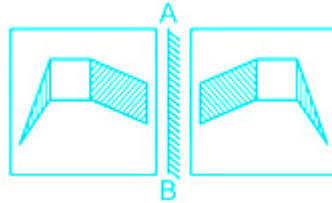


Hence, answer is option 2.

31. Answer: d

Explanation:

The mirror image of the question figure should have a parallelogram left side, a square in middle and a triangle right side and its pointed side should be downward.



Hence, answer is option 4.

32. Answer: c

Explanation:



Hence, answer is option 3.

33. Answer: d

Explanation:

Given equation: $43 ? 9 ? 3 ? 11 ? 3 = 137$

On inserting symbols,

1) $43 + 9 - 3 \div 11 \times 3 \rightarrow 51.18 \neq 137$

2) $43 \times 9 \div 3 - 11 + 3 \rightarrow 121 \neq 137$

3) $43 \div 9 \times 3 - 11 + 3 \rightarrow 6.33 \neq 137$

4) $43 \times 9 \div 3 + 11 - 3 \rightarrow 137 = 137$

Hence, 'x, ÷, + and -' is the correct set of symbols.

34. Answer: b

Explanation:

Here, numbers have been written in reverse order.

Similarly,

6 @ 12 @ 3 → 3126

Hence, answer is '3126'.

35. Answer: a

Explanation:

Dictionary order:

4. Race

1. Raid

2. Rain

5. Range

3. Ring

Hence, the correct dictionary order for the given words is '41253'.

36. Answer: b

Explanation:

The pattern followed in the series is,

$$5 + (4 \times 1) \rightarrow 9 + (4 \times 2) \rightarrow 17 + (4 \times 3) \rightarrow \mathbf{29} + (4 \times 4) \rightarrow 45 + (4 \times 5) \rightarrow 65$$

Hence the missing number in the series is 29.

37. Answer: c

Explanation:

Pattern followed here is,

NT \rightarrow reverse \rightarrow TN, PR \rightarrow reverse \rightarrow RP, OQ \rightarrow reverse \rightarrow QO

So, the next letters in the series will be QO.

38. Answer: d

Explanation:

Here, Goalkeeper is the odd word as all other options are thing used in Cricket while Goalkeeper in the person.

Hence, 'Goalkeeper' is the odd word.

39. Answer: d

Explanation:

Here, all other numbers are square of 13, 11 and 17 respectively, while 258 is not square of any number.

Thus, '258' is the odd number.

40. Answer: c

Explanation:

Here, all the options except 'cp' have 12 letters between them while between c and p there are 13 letters.

1) fr → f (6) – r (18) → 12

2) bn → b (2) – n (14) → 12

3) cp → c (3) – p (16) → **13**

4) dp → d (4) – p (16) → 12

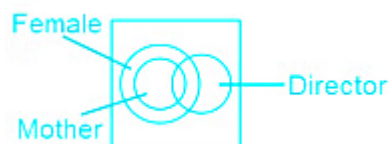
Hence, 'cp' are the odd letters,

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41. Answer: c

Explanation:

All mothers are female so female is represented by the large circle and circle inside it represents mother and some mother can be director which is shown by the third circle.



Hence, answer is option 3.

42. Answer: b

Explanation:

As Distance is calculated in Kilometre similarly, Time is calculated in Hours.

Hence, answer is 'Time : Hours'.

43. Answer: b

Explanation:

Here, second number is square of first number.

$(11)^2 \rightarrow 121$ similarly, $(20)^2 \rightarrow 400$

Hence, answer is 400.

44. Answer: b

Explanation:

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

The patten followed here is,

$A + 3 \rightarrow D, C + 4 \rightarrow G$

Similarly,

$M + 3 \rightarrow P, Q + 4 \rightarrow U$

Hence, the correct answer is 'PU'.

45. Answer: b

Explanation:

- 1) PULSE → RE PULS IV E → can be formed.
- 2) USED → REPULSIVE → cannot be formed as there is no letter ' D'.
- 3) LIVE → REPU LS IVE → can be formed.
- 4) SURE → RE PU LS IVE → can be formed.

Hence, 'USED' cannot be formed.

46. Answer: b

Explanation:

Total students = 40

A's position from left = 13

Total students = Position of student from right side + Position from left - 1

Position of student from right side = Total students - Position from left + 1

A's position from right = $40 - 13 + 1$

→ $40 - 12 = 28$

Hence, A is 28th from right.

47. Answer: a

Explanation:

The ratio of the present ages of P and Q = 3 : 5

Let P's present age be $3x$ and Q's present age be $5x$

The sum of their present ages = 64 (sum of ages 4 years ago) + 8

$$3x + 5x = 72 \text{ years}$$

$$8x = 72 \rightarrow x = 9$$

The present age of P = $3x \rightarrow 3 \times 9 \rightarrow 27$ years

The present age of Q = $5x \rightarrow 5 \times 9 \rightarrow 45$ years

The ratio of their ages 4 years ago = $(27 - 4)/(45 - 4)$

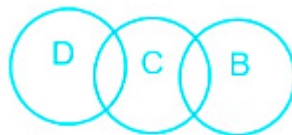
$$\rightarrow 23/41$$

Hence, the ratio of ages of P and Q, 4 years ago, is '23 : 41'.

48. Answer: a

Explanation:

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



Conclusions:

I. Some D are C \rightarrow follows.

II. No B is D \rightarrow not follows.

Hence, only conclusion (I) follows.

49. Answer: a

Explanation:

Here, "MIND" has been coded as follows,

$M + 3 \rightarrow P, I + 3 \rightarrow L, N + 3 \rightarrow Q, D + 4 \rightarrow G$

Similarly, "LAKE" will be coded,

$L + 3 \rightarrow O, A + 3 \rightarrow D, K + 3 \rightarrow N, E + 3 \rightarrow H$

Hence, "LAKE" will be coded as "ODNH".

50. Answer: c

Explanation:

Here, "FOX" is coded as $\rightarrow (6 + 15 + 24) + 5 = 50$

"BOX" is coded as $\rightarrow (2 + 15 + 24) + 5 = 46$

Similarly, "FAX" will be coded $\rightarrow (6 + 1 + 24) + 5 = 36$

Hence, "FAX" will be coded as 36.

51. Answer: d

Explanation:

$$\text{Given: } (a^{-12} \times b^{12}) \times (a^{18} \times b^{-18})$$

$$\Rightarrow a^{-12} \times a^{18} \times b^{12} \times b^{-18}$$

$$\Rightarrow a^6 \times b^{-6}$$

$$a^6/b^6$$

52. Answer: b

Explanation:

Checking each number one by one:

$$\Rightarrow 24570/20 = 1273.5$$

$$\Rightarrow 34580/20 = 1729$$

$$\Rightarrow 33410/20 = 1670.5$$

$$\Rightarrow 444430/20 = 22221.5$$

\therefore 34580 is exactly divisible by 20

53. Answer: b

Explanation:

$$(543 \times 545 \times 546)/6$$

Since 546 is divisible by 6, the remainder must be 0.

54. Answer: a

Explanation:

Given:

$$(\sqrt{5} + 2) / (\sqrt{5} - 2)$$

$$\Rightarrow [(\sqrt{5} + 2) / (\sqrt{5} - 2)] \times [(\sqrt{5} + 2) / (\sqrt{5} + 2)] \quad (\because \text{rationalising})$$

$$\Rightarrow (\sqrt{5} + 2)^2 / (5 - 4)$$

$$\Rightarrow (5 + 4 + 4\sqrt{5}) = 9 + 4\sqrt{5}$$

$$\therefore (\sqrt{5} + 2) / (\sqrt{5} - 2) = 9 + 4\sqrt{5}$$

55. Answer: d

Explanation:

Let's consider the series as a geometric progression:

$$\Rightarrow \text{First term} = a = 31; \text{common difference} = d = 1$$

$$\Rightarrow \text{last term} = A_n = 50$$

$$\text{We know, Sum of an AP} = n/2 [a + A_n] \quad (1)$$

Finding n:

$$\Rightarrow A_n = a + (n - 1)d$$

$$\Rightarrow 50 = 31 + nd - 1 = 30 + n$$

$$\therefore n = 50 - 30 = 20$$

$$\Rightarrow \text{Sum} = 20/2 [31 + 50] = 10 \times 81 = 810$$

$$\therefore \text{Sum of the series} = 810$$

56. Answer: b

Explanation:

All the terms can we re - written as:

$$\Rightarrow 3^8; 3^{16}; 3^9; 3^4$$

Clearly, 3^{16} is the greatest number.

57. Answer: c

Explanation:

Part of tank filled by P in 1 hour = $1/60$

Part of tank filled by Q in 1 hour = $1/90$

⇒ Part of tank filled by both in 1 hour = $1/60 + 1/90 = (3 + 2)/180 = 5/180$

∴ Time taken by both to fill the tank = $180/5 = 36$ hours

58. Answer: a

Explanation:

Part filled by A in 1 hour = $1/20$

Part filled by B in 1 hour = $1/24$

Part emptied by C in 1 hour = $1/12$

∴ part filled when all are opened in 1 hour = $1/20 + 1/24 - 1/12 = (6 + 5 - 10)/120 = 1/120$

∴ Portion of tank filled in 12 hours = $12 \times (1/120) = 1/10$

59. Answer: b

Explanation:

Given:

Side of the equilateral triangle = 16 cm

Formula Used:

$$\Rightarrow \text{Area of the equilateral triangle} = \left[\frac{\sqrt{3}}{4}\right] \times a^2.$$

Calculation:

$$\Rightarrow \text{Area of the equilateral triangle} = \left[\frac{\sqrt{3}}{4}\right] \times 16 \times 16$$

$$\therefore \text{Area of the equilateral triangle} = 64\sqrt{3}.$$

60. Answer: b

Explanation:

Let the CP be 'x'

$$\Rightarrow MP = x + 0.6x = 1.6x$$

$$\Rightarrow SP = 1.6x - 0.3 \times 1.6x = 1.12x$$

$$\text{Also, } SP = 672$$

$$\Rightarrow 1.12x = 672$$

$$\Rightarrow x = 672/1.12 = 600$$

$$\therefore CP = \text{Rs. } 600$$

61. Answer: b

Explanation:

Let the MP = x

$$\Rightarrow CP = 540 \text{ (Given)}$$

$$SP = x - 0.1x = 0.9x$$

$$\text{Profit} = 35\%$$

$$\Rightarrow (SP - CP)/CP = 0.35$$

$$\Rightarrow (0.9x - 540)/540 = 0.35$$

$$\Rightarrow 0.9x - 540 = 189$$

$$\Rightarrow 0.9x = 729$$

$$\Rightarrow x = 729/0.9 = 810$$

$$\therefore MP = \text{Rs. } 810$$

Alternative Method:

Relationship between CP and MP

$$CP : MP = (100 - D\%) : (100 + P\%)$$

$$CP : MP = (100 - 10) : (100 + 35) = 2 : 3$$

$$2 \text{ unit} = 540$$

$$\therefore 3 \text{ units} = 810$$

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62. Answer: b

Explanation:

Let the numbers be $7x$ and $12x$

$$12x - 7x = 60$$

$$\Rightarrow 5x = 60$$

$$\Rightarrow x = 60/5 = 12$$

$$\therefore \text{Smallest number} = 7x = 7 \times 12 = 84$$

63. Answer: a

Explanation:

Let the shares of A, B and C be $2x$, $3x$ and $5x$

$$\Rightarrow 2x + 3x + 5x = 2160$$

$$\Rightarrow 10x = 2160 \Rightarrow x = 2160/10 = 216$$

$$\Rightarrow A's \text{ share} = 216 \times 2 = 432; B's \text{ share} = 3 \times 216 = 648$$

$$\therefore \text{Difference of A's and B's shares} = 648 - 432 = 216$$

64. Answer: b

Explanation:

Given: Average of 10 numbers = 9.5

$$\Rightarrow (\text{Sum of 10 numbers})/10 = 9.5$$

$$\Rightarrow \text{Sum of 10 numbers} = 95$$

$$\text{New sum} = \text{Sum of 10 numbers} - 5 = 95 - 5 = 90$$

$$\therefore \text{New average} = 90/9 = 10$$

65. Answer: c

Explanation:

Let the CP = x

$$\Rightarrow \text{SP} = x + 0.3x = 1.3x$$

$$\text{New SP} = 2 \times 1.3x = 2.6x$$

$$\Rightarrow \text{Profit} = (2.6x - x)/x \times 100 = 160\%$$

$$\therefore \text{Profit \%} = 160$$

66. Answer: a

Explanation:

$$\text{Let the SP of 1 chair} = x$$

$$\Rightarrow \text{SP of 400 chairs} = 400x$$

$$\text{Given, Profit} = 50x$$

$$\Rightarrow \text{CP} = 400x - 50x = 350x$$

$$\therefore \text{Profit \%} = [(400x - 350x)/350x] \times 100 = 14.28\%$$

67. Answer: b

Explanation:

$$\text{Initial value} = 1000$$

$$\Rightarrow \text{After increase of 10\%} = 1000 + 0.1 \times 1000 = 1100$$

$$\text{After decrease of 30\%:}$$

$$\Rightarrow 1100 - 0.3 \times 1100 = 1100 - 330 = 770$$

$$\therefore \text{Final value} = 770$$

68. Answer: b

Explanation:

Let the total number of bags = x

Green coloured bags = $0.3x$

⇒ Remaining bags = $x - 0.3x = 0.7x$

⇒ Red coloured bags = $0.3 \times 0.7x = 0.21x$

Remaining bags = $0.7x - 0.21x = 0.49x$

Yellow coloured bags = $0.4 \times 0.49x = 0.196x$

⇒ Remaining bags = $0.49x - 0.196x = 0.294x$

Given: $0.294x = 1176$

⇒ $x = 1176/0.294 = 4000$

∴ Total no. of bags = 4000

69. Answer: b**Explanation:**

Let the speed of stream = a km/hr

⇒ Speed upstream = $8 - a$ km/hr

Distance = 40 km; Time = 8 hours

⇒ Speed = Distance/Time

⇒ $8 - a = 40/8 = 5$

⇒ $a = 8 - 5 = 3$ km/hr

∴ Speed of stream = 3 km/hr

70. Answer: b

Explanation:

Total distance covered = $400 + 600 = 1000$ m

\Rightarrow Speed = $1000/50 = 20$ m/s

\therefore Speed of train = $20 \times (18/5) = 72$ km/hr (\because Multiplied by $18/5$ to convert to km/hr)

71. Answer: b

Explanation:

Let the sum = P

$$\Rightarrow 4P = P \times \left(1 + \frac{R}{100}\right)^2$$

$$\Rightarrow 4 = \left(1 + \frac{R}{100}\right)^2$$

$$\Rightarrow 2 = 1 + 0.01R \Rightarrow R = 100 \quad (1)$$

When sum becomes 16 times:

$$\Rightarrow 16P = P \times \left(1 + \frac{R}{100}\right)^n$$

$$\Rightarrow 16 = \left(1 + \frac{100}{100}\right)^n$$

$$\Rightarrow 2^4 = 2^n$$

$\therefore n = 4$ years

72. Answer: b

Explanation:

$$\text{No. of students playing Tennis} = 1080 \times (108/360) = 324$$

$$\text{No. of students playing Cricket} = 1080 \times (72/360) = 216$$

$$\therefore \text{Average} = (324 + 216)/2 = 540/2 = 270$$

73. Answer: d

Explanation:

$$\text{No. of students playing Tennis} = 1080 \times (108/360) = 324$$

$$\text{No. of students playing Polo} = 1080 \times (36/360) = 108$$

$$\therefore \text{Difference} = 324 - 108 = 216$$

74. Answer: c

Explanation:

$$\text{No. of students playing Tennis} = 1080 \times (108/360) = 324$$

$$\text{No. of students playing Polo} = 1080 \times (36/360) = 108$$

$$\text{No. of students playing Cricket} = 1080 \times (72/360) = 216$$

$$\text{No. of students playing Hockey} = 1080 \times (90/360) = 270$$

$$\text{No. of students playing Golf} = 1080 \times (54/360) = 162$$

Checking each option one by one:

1: Cricket + Polo = 216 + 108 = 324 is not equal to hockey

2: Hockey + Tennis = 270 + 324 = 594 is not equal to Golf

3: Cricket + Polo = 216 + 108 = 324 = Tennis

4: Hockey + Cricket = 270 + 216 = 486 is not equal to Tennis

∴ Option 3 is correct.

75. Answer: d

Explanation:

No. of students playing Cricket = $1080 \times (72/360) = 216$

No. of students playing Hockey = $1080 \times (90/360) = 270$

∴ Total no. of students who play either Hockey or Cricket = $270 + 216 = 486$

76. Answer: a

Explanation:

- Each production is dependent on the combination of land, labour, physical and Human capital which are commonly known as '**Factors of Production**'.
 - In order to carry out operations or production, we need **a land (a place)** to set up the production, **the labour** to carry out production, **Physical capital** for transport and for purchasing of goods and **human capital** to direct the labour to ease the production process.
 - All the other things like organisations or Industries and economic activities are inter-connected and dependent on **factors of Production**.
-

77. Answer: c

Explanation:

- Economic activities are basically defined as production, distribution and final consumption of the commodities by the consumer. Therefore, Market activities

in Economy basically involve **activities performed for Pay or Profit** .

- Economic activities are basically of four types:
- **Primary Sector (Raw Materials)**
- **Secondary Sector (Industry and Manufacturing)**
- **Tertiary Sector (Service Sector)**
- **Quaternary Sector (Knowledge Sector)**

78. Answer: a

Explanation:

- According to **Article 85 (2)(b)** of the Constitution of India, **The President of India** has the ultimate power to dissolve the Lok Sabha.
- **The Lok Sabha has a term of five years** , but if the concerned authority wants, it can be dissolved earlier.
- There are two ways in which the Lok Sabha can be dissolved:
- Firstly, when the leader of the majority (the ruling party) dissolves the Lok Sabha.
- Secondly, when the leader of the single largest party doesn't gain the majority in the Lok Sabha, then the entitled power passes the authority to the President.

79. Answer: a

Explanation:

- **Fundamental Duties** are defined in Part IV-A of the Indian Constitution.
- Fundamental Duties are the moral obligations of all the citizens of India.
- There are 11 Fundamental duties.
- **Fundamental Duties were added to the Constitution by 42nd Amendment of Constitution in the year 1976.**
- Fundamental Duties are non-justifiable and non-legally enforceable but it is expected from every citizen of country to promote and uphold the spirit of patriotism and unity in India.

80. Answer: c

Explanation:

- ' Dholavira ', commonly known as **Kotada** , is an archaeological site located in **Gujarat (Rann of Kutch District)**.
 - Dholavira was discovered by **J.P Joshi** in the year **1967**.
 - Dholavira was an important centre of trade between **Gujarat, Sindh, Punjab and Western Asia**.
-

81. Answer: b

Explanation:

- The **reunion of the two wings** of the **Indian National Congress** took place in the year **1916** , in the Lucknow session.
 - The **Surat Split** (1907) is remarked as the division between the leaders of Indian National Congress (INC) which had two segregations of ideologies mainly by extremists and moderators, held at the Surat Session in the year 1907.
 - The group of moderators dominated the **Indian National Congress** between the period of 1885-1905, whereas the other group of extremists remained outside and did not dominate the INC by not participating in the major activities.
-

82. Answer: c

Explanation:

- Our Solar System is a part of the ' **Milky Way**' galaxy.
- Milky Way galaxy is the huge crunch of stars which are congregated together in the Universe space.

- Milky Way galaxy is a barred spiral with four major arms in its **disk, one spur and outer arm**. It was formed around **12 billion years ago**.
-

83. Answer: b

Explanation:

- The Alps Mountains are ' **Young Fold Mountains**'.
 - The Alps Mountains are the **highest and most extensive mountain range in Europe** which were formed millions of years ago.
 - The effects of folding on the layers within the upper part of the crust of Earth leads to the formation of the 'fold mountains'.
-

84. Answer: a

Explanation:

- 'Insulin' is produced from the endocrine gland namely ' **Pancreas**'.
 - Insulin is a hormone secreted by the Pancreas (beta cells) that **helps the body to store and use the glucose**.
 - Insulin helps to keep the blood sugar level in control, from getting too high or too low.
 - Deficiency of 'insulin' leads to ' **diabetes**'.
-

85. Answer: d

Explanation:

- **Roots of the plant** help in holding the plant firmly in the soil.
- Roots suck water and nutrients from the soil and transfer the same into the plants.

- Roots also help in holding the soil together.
- Roots are generally of two types- **Tap Roots and Fibrous Roots.**

86. Answer: a

Explanation:

- Human Being inhales **21% of O₂(Oxygen)** present in the air.
- **Nitrogen** makes to **78%** of the air which human breathes in, followed by 21% of Oxygen and **0.04%** of **Carbon dioxide** .
- Human Being breathes oxygen from their mouth into their lungs. The chest cavity containing the lungs expand and contract with the diaphragm as it moves down and up.

87. Answer: c

Explanation:

- SI unit of pressure is '**Pascal**' and its formula sign is **Pa**.
- Pressure is defined as the force per unit area (pressure=force/area).
- 1 Pascal equals the pressure of **1 newton per square meter and the formula is as follows:**

$$1 \text{ Pa} = 1 \text{ N} / \text{m}^2 \equiv 1 \text{ kg} / \text{m}.$$

88. Answer: b

Explanation:

- The **image** formed by a **plane mirror** is always **virtual**.
- The image formed is 'virtual' because it is a copy of an object formed at the location from which the light rays appear to come.

- A plane mirror is a mirror with a **flat reflective surface** . For light rays striking a plane mirror, the angle of reflection equals the angle of incidence. Therefore, the angle of reflection is the angle between the reflected ray and the normal.
-

89. Answer: a

Explanation:

- There are two major file systems in Microsoft Windows, namely, **NTFS and FAT**.
 - **FAT (File Allocation Table)** is generally supported by the Microsoft Windows OS and the system was inherited from old DOS.
 - Whereas, **NTFS** is a file system that supports larger file sizes and hard drives. **NTFS is the default file system of the Windows NT family.**
-

90. Answer: a

Explanation:

- The Atomic Mass is defined as the sum of the numbers of Neutrons and Protons in the nucleus of an atom and the **Atomic Mass of Hydrogen is 1 amu** .
 - **Hydrogen** has no neutrons in its nucleus.
Atomic Mass = Total No. of Protons + Total No. of Neutrons
 - Hydrogen is the **first element** of the periodic table.
-

91. Answer: b

Explanation:

- The **pH** value of a '**neutral**' solution is **7**. Generally, pH greater than 7 is considered basic and pH less than 7 is considered acidic.

- The **pH value** is defined as a measure of the molar concentration of hydrogen ions in a particular solution to measure the degree of the acid or base of the solution.
 - For instance, **pure water** is neutral, at pH 7, which shows properties of neither being acidic in nature nor a base.
-

92. Answer: a

Explanation:

- **Forests** are the example of **Natural Ecosystems**.
 - Ecosystems comprise of **all living and non-living species** in a specific local environment.
 - Natural ecosystem is the result of interactions between environment and organism.
 - In a natural ecosystem, **sunlight** is the energy source of its plants and this energy drives all biological cycle.
-

93. Answer: b

Explanation:

- **"More Crop per Drop"** is the tagline for 'Pradhan Mantri Krishi Sinchayee Yojana'.
 - The policy was launched in the year **2015-2016** to promote farming and irrigation.
 - The main objective of the scheme is to converge the investments in irrigation at the farm level and provide end to end solutions to the farmers.
-

94. Answer: d

Explanation:

- **Sir Chandrasekhara Venkata Raman** , famously known as Sir C.V. Raman is famous for ' **Raman Effect**'.
- The **change in the wavelength of the light** that occurs when a beam light is deflected by the molecules is described by the 'Raman effect'.
- C.V. Raman discovered Raman effect in the year **1928**.



95. Answer: d

Explanation:

- **All the above options are correct.** Squash, Lawn-tennis, Badminton and Table-tennis are the sports which involve the use of rackets.
- The above-mentioned sports are specifically termed as 'Racket Sports' in which both the players make use of racket to hit some object or a ball to compete against each other.
- **Few more Racket Sports are:**
 - a. Ping Pong
 - b. Paddle Tennis
 - c. Hardball Squash
 - d. Frescobol
 - e. Qianball
 - f. Soft Tennis

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96. Answer: c

Explanation:

- The **Amaravati School of Art** comes under the patronage of 'Satavahanas' of **Andhra region** and the school is a notable and reputed institution of Art which has made its mark and influence in India for its aesthetic importance.
- The 'Satavahanas' patronized **Buddhism and Brahmanism** and helped in building **chaityas** and **viharas**.
- Amaravati School of Art is famously known for its '**stupas**', which are distinctively made from white marble.

97. Answer: b

Explanation:

- Princess MahaChakriSirindhorn who belongs to Thailand, has been conferred with first "World Sanskrit Award".
- She has been awarded for her contribution towards the promotion of the Sanskrit language.
- The award is given to Sanskrit scholars to recognise their outstanding contribution to the study/research in Sanskrit language and literature.
- The award is instituted by the Indian Council for Cultural Relations (ICCR).

98. Answer: a

Explanation:

- R.K. Narayan is the author of the book named "Malgudi Days" which was published in 1943.
- The book contains 32 stories set in a fictional town called 'Malgudi'.
- It was adapted as a television series which was broadcasted on Doordarshan network.
- Malgudi Days was published outside of India by Penguin Classics in 1982.

99. Answer: b

Explanation:

The correct answer is Cobra Gold.

★ Key Points

- **Cobra Gold** is the largest Asia-Pacific military exercise held in Thailand every year.
 - It is a military exercise to improve the coordination between the armed forces of the USA and Thailand.
 - Cobra Gold exercise started in **1982**.
 - Cobra Gold exercise consists of three activities namely **Combined Arms Live-Fire Exercise (CALFEX)**, **Command Post Exercise (CPX)** and assisting the local Thai population.
-

100. Answer: d

Explanation:

- ' **Operation Cactus**' was the operation by Indian Armed forces to foil the coup in Maldives.
- The operation commenced in **November 1988**.
- Operation Cactus was carried out by India in order to curb the terrorist attack from the **Government of Maldives**.

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