



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 CGL 2018 (Tier-I) Previous Year Paper (13-Jun-2019) (Shift 1)

Total Time: 1 Hour

Total Marks: 200

Instructions

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

General Intelligence and Reasoning

1. Select the option that is related to the third number in the same way as the second number is related to the first number. (+2, -0.5)

1 : 2 :: 5 : ?

- a. 128
- b. 129
- c. 130
- d. 120

-
2. Which number will replace the question mark (?) in the following series? (+2, -0.5)

116, 128, 146, 170, 200, ?

- a. 260
- b. 264
- c. 232
- d. 236

-
3. Arrange the following words in a logical and meaningful order. (+2, -0.5)

- 1. Accident
- 2. Ambulance
- 3. Rash Driving
- 4. Injury

5. Hospital

6. Treatment

a. 3, 1, 2, 4, 5, 6

b. 3, 1, 4, 2, 6, 5

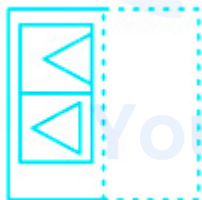
c. 3, 1, 4, 2, 5, 6

d. 3, 4, 1, 2, 5, 6

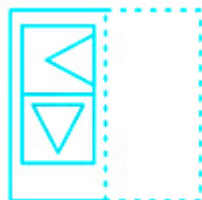
4. Select the option that depicts how the given transparent sheet of paper would appear if it is folded at the dotted line. (+2, -0.5)



a.



b.



c.





d.

5. The current age of Savan is four times the age of Akshan. 10 years from now, Savan's age will be twice the age of Akshan. What is Savan's current age? (+2, -0.5)

- a. 5 years
- b. 20 years
- c. 10 years
- d. 30 years

6. Which letter-cluster will replace the question mark (?) in the following series? (+2, -0.5)

PSV, UXA, ZCF, EHK, ?

- a. JNP
- b. JMO
- c. JMP
- d. IMP

7. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair. (+2, -0.5)

Resistance : Ohm

- a. Time : Clock
 - b. Length : Metre
 - c. Pressure : Barometer
 - d. Temperature : Thermometer
-

8. 'Pencil' is related to 'Stationery' in the same way as 'Pilates' is related to (+2, -0.5)
'-----'.

- a. Dry fruits
 - b. Spices
 - c. Pulses
 - d. Exercise
-

9. In a code language, ASTRONOMY is written as SARTPONYM. How will (+2, -0.5)
FENUGREEK be written as in that language?

- a. EFUNHERKE
 - b. EFUNHKEER
 - c. EFUNFERKE
 - d. UNEFGKEER
-

10. Select the correct mirror image of the given figure when the mirror is (+2, -0.5)
placed to the right of the figure.



11. Select the missing number from the given options.

(+2, -0.5)

7	11	14
8	12	9
113	265	?

- a. 277
- b. 361
- c. 281
- d. 625

12. Three of the following four words are alike in a certain way and one is different. Pick the odd word out. (+2, -0.5)

- a. Gagster
- b. Humorous
- c. Comical
- d. Hilarious

13. In a code language, ROUTINE is written as 181521209145. How will VEHICLE be written as in that language? (+2, -0.5)

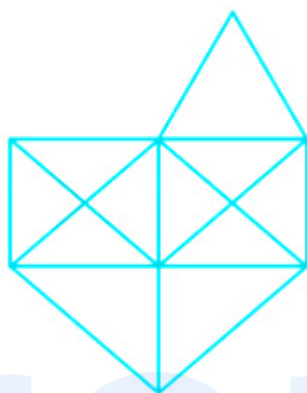
- a. 225893125
- b. 225893115

c. 215893125

d. 225793125

14. How many triangles are there in the following figure?

(+2, -0.5)



a. 26

b. 24

c. 22

d. 25

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15. Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

(+2, -0.5)

Statements:

All fields are farm-houses.

Some fields are gardens.

Conclusions:

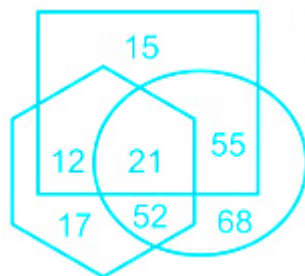
- I. Some farm-houses are fields.
- II. Some gardens are fields.
- III. Some farm-houses are gardens.
- a. All the conclusions, I, II and III,
- b. Only conclusions I and II follow.
- c. Only conclusions I and III follow.
- d. Either conclusion I or III follows.

16. Three different positions of the same dice are shown. Which number will be on the face opposite to the one having 4? (+2, -0.5)



- a. 1
- b. 6
- c. 2
- d. 3

17. In the given Venn diagram, the hexagon represents 'farmers', the circle represents 'beneficiaries' and the square represents 'land-owners'. The numbers given in the diagram represent the number of persons in that particular category. (+2, -0.5)



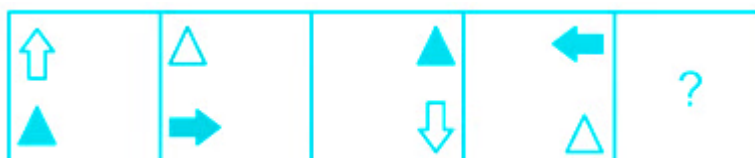
How many farmers are both land-owners and beneficiaries?

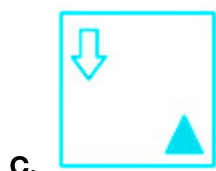
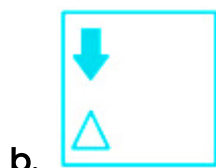
- a. 55
- b. 21
- c. 12
- d. 52

18. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out. (+2, -0.5)

- a. UWYAC
- b. PRTWY
- c. MOQSU
- d. CEGIK

19. Select the figure that will come next in the following figure series. (+2, -0.5)





20. 'A + B' means 'A is the daughter of B'.

(+2, -0.5)

'A - B' means 'A is the brother of B'.

'A × B' means 'A is the mother of B'.

'A ÷ B' means 'A is the son of B'.

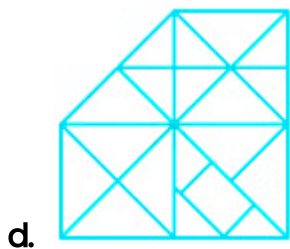
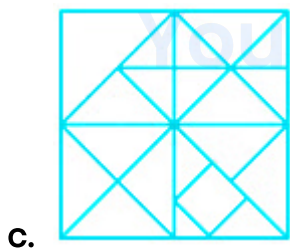
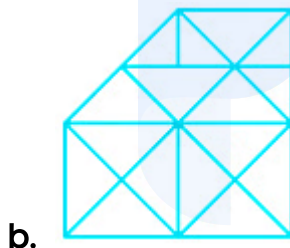
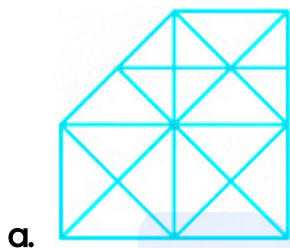
If $U + C \times Q - P \div R \div S - T$, then how is S related to U?

- a. Paternal grandfather
- b. Mother
- c. Maternal grandfather
- d. Paternal grandmother

21. Select the figure in which the given figure is embedded.

(+2, -0.5)

(Rotation is not allowed).



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

$$40 + 10 \div 2 \times 8 - 17 = 17$$

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

23. Select the missing number from the given options? (+2, -0.5)

18	28	50
17	13	11
26	27	?

- a. 30
- b. 29
- c. 61
- d. 36

24. Three of the following four number-pairs are alike in a certain way and one is different. Pick the number-pair that is different from the rest. (+2, -0.5)

- a. 9 : 80
 - b. 6 : 35
 - c. 4 : 15
 - d. 7 : 46
-

25. Which letter will replace the question mark (?) in the following series? (+2, -0.5)

R, C, T, E, V, ?, X, I

- a. F
- b. Y
- c. W
- d. G

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General Awareness

26. Which one of the following is the largest recognised constellation? (+2, -0.5)

- a. Dorado
 - b. Hydra
 - c. Crux
 - d. Antila
-

27. In Parliament, who takes the final decision on whether a Bill is a Money Bill or not? (+2, -0.5)

- a. Speaker
 - b. Prime Minister
 - c. Finance Minister
 - d. Vice President
-

28. What is the other name for 'Orion' Constellation? (+2, -0.5)

- a. Fighter
 - b. Predator
 - c. Piper
 - d. Hunter
-

29. Rehuke khim' or 'cowrie shawl' are traditional textiles of _ _ _ _ _ . (+2, -0.5)

- a. Odisha
 - b. Jharkhand
 - c. Assam
 - d. Nagaland
-

30. In the context of Indian parliament what is 'Zero Hour'? (+2, -0.5)

- a. Time before Question Hour
 - b. Time immediately after Question Hour
 - c. Time in the last half of the parliamentary proceeding
 - d. Time in the first half of the parliamentary proceeding
-

31. The phrase 'Bend your back' is used in which sport? (+2, -0.5)

- a. Volleyball
 - b. Cricket
 - c. Football
 - d. Hockey
-

32. When was the 'Battle of Tukaroi' fought? (+2, -0.5)

- a. 1532

- b.** 1565
 - c.** 1546
 - d.** 1575
-

33. Identify the element that is most prolific in the crust of the earth. (+2, -0.5)

- a.** Iron
 - b.** Oxygen
 - c.** Hydrogen
 - d.** Silicon
-

34. The Special Olympics 2019 were held in _____. (+2, -0.5)

- a.** Barcelona
 - b.** Qatar
 - c.** Abu Dhabi
 - d.** Istanbul
-

35. The easternmost point of India is _____. (+2, -0.5)

- a.** Doulchara
- b.** Mokokchung
- c.** Wokha

d. Kibithu

36. Which of the following is called the 'Grand Canyon of India'? (+2, -0.5)

- a. Gangani Grand Canyon
 - b. Great Canyon of Gandikota
 - c. Chambal River Canyon
 - d. Laitlum Canyon
-

37. When was the 'Battle of Kanauj' fought? (+2, -0.5)

- a. 1536
 - b. 1524
 - c. 1556
 - d. 1540
-

38. Which of the following Indians was one of the founders of Dartington Hall School in Japan? (+2, -0.5)

- a. Rabindranath Tagore
 - b. Dadabhai Naoroji
 - c. Swami Vivekananda
 - d. Subhash Chandra Bose
-

39. Which documentary based on Indian society won an Academy Award in 2019? (+2, -0.5)

- a. Black Sheep
 - b. Period. End of Sentence
 - c. Lifeboat
 - d. End Game
-

40. Surendranath Banerjee and Ananda Mohan Bose founded _____ in Bengal in 1876. (+2, -0.5)

- a. Bengal Association
 - b. Indian Association
 - c. Oriental Association
 - d. Tathagat Association
-

41. What is the economic impact of increase in productivity of firms? (+2, -0.5)

- a. The impact may vary among nations and their economic conditions
 - b. No change in Gross Domestic Product
 - c. Increase in Gross Domestic Product
 - d. Decrease in Gross Domestic Product
-

42. Which player has the record of scoring the most runs in the history of ICC World Cup? (+2, -0.5)

- a. Brian Lara
- b. Sachin Tendulkar
- c. Don Bradman
- d. Imran Khan

43. What would happen to the demand curve when there is an increase in the price of substitute products? (+2, -0.5)

- a. Inward shift
- b. Remains constant
- c. Outward shift
- d. Initially inward and then after a period outward shift

44. The process of change from liquid to gas is called _____. (+2, -0.5)

- a. Decantation
- b. Vaporisation
- c. Condensation
- d. Precipitation

45. In which of the following states is the 'Lusei' dialect spoken? (+2, -0.5)

- a. Goa
 - b. Mizoram
 - c. Manipur
 - d. Kerala
-

46. The Sahyadri Mountains run from _ _ _ _ _ to Kanyakumari, the southernmost part of India. (+2, -0.5)

- a. Gujarat
 - b. Uttar Pradesh
 - c. Madhya Pradesh
 - d. Rajasthan
-

47. Who is the author of the book 'The Bird of Time: Songs of Life, Death and the Spring'? (+2, -0.5)

- a. Sarojini Naidu
 - b. Vikram Seth
 - c. Rabindranath Tagore
 - d. Kamala Suraiyya
-

48. Where is the National War Memorial of India located? (+2, -0.5)

- a. Andaman

- b.** Rajkot
 - c.** Kochi
 - d.** New Delhi
-

49. The Aligarh Movement was started by _ _ _ _ _.

(+2, -0.5)

- a.** Dr Maghfoor Ahmad Ajazi
 - b.** Syed Ahmed Khan
 - c.** Muhammad Ali Jinnah
 - d.** Maulana Manzoor Ahsan
-

50. What is the unit of measure of a magnetic field?

(+2, -0.5)

- a.** Cobalt
- b.** Ohm
- c.** Tesla
- d.** Ampere

Quantitative Aptitude

51. $21.6 \div 3.6 \times 2 + 0.25 \times 16 \div 4 - 6$ is equal to: (+2, -0.5)

- a. 6
- b. 8
- c. 5
- d. 7

52. If $\sqrt{x} - \frac{1}{\sqrt{x}} = \sqrt{5}$, then $x^2 + \frac{1}{x^2}$ is equal to: (+2, -0.5)

- a. 47
- b. 49
- c. 51
- d. 45

53. If $3\sin \theta = 2\cos \theta$, then $\frac{4\sin \theta - \cos \theta}{4\cos \theta + \sin \theta}$ is equal to: (+2, -0.5)

- a. $5/14$
- b. $5/7$
- c. $5/11$
- d. $5/8$

54. In a circle of radius 17 cm, a chord is at a distance of 15 cm from the centre of the circle. What is the chord? (+2, -0.5)

- a. 8 cm
- b. 12 cm
- c. 15 cm
- d. 16 cm

55. The price of petrol is increased by 28%. A person wants to increase his expenditure by 22% only. By approximately what percent should he decrease his consumption? (+2, -0.5)

- a. 5.1%
- b. 5.3%
- c. 4.7%
- d. 4.9%

56. The difference between the compound interest and simple interest on Rs. x at 11% per annum for 2 years is Rs. 60.50. What is the value of x? (+2, -0.5)

- a. 4800
- b. 4000
- c. 5000
- d. 4500

57. If $a : b = 5 : 7$, then $(5a - 3b) : (4a - 2b)$ is equal to: (+2, -0.5)

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

58. The efficiencies of A, B, and C are in the ratio 2 : 5 : 3. Working together, they can complete a task in 12 days. In how many days can A alone complete 30% of that task? (+2, -0.5)

- a. 18
- b. 20
- c. 16
- d. 15

59. The value of $\sin^2 42^\circ + \sin^2 48^\circ + \tan^2 60^\circ - \operatorname{cosec} 30^\circ$ is equal to: (+2, -0.5)

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

60. $\triangle ABC \sim \triangle EDF$ and $ar(\triangle ABC) : ar(\triangle EDF) = 1 : 4$. If $AB = 7$ cm, $BC = 8$ cm and $CA = 9$ cm, then DF is equal to: (+2, -0.5)

- a. 14 cm
- b. 16 cm
- c. 18 cm
- d. 8 cm

61. **Direction :** The table shows the number of students from different schools playing different games. (+2, -0.5)

Games	Schools			
	A	B	C	D
Cricket	125	250	150	175
Football	175	200	250	125
Hockey	75	125	200	150

What is the ratio of the total students who play cricket in schools A and B together to the total students who play hockey in schools C and D?

- a. 16 : 13
- b. 15 : 13

c. 15 : 14

d. 16 : 11

62. **Direction :** The table shows the number of students from different schools playing different games. (+2, -0.5)

Games	Schools			
	A	B	C	D
Cricket	125	250	150	175
Football	175	200	250	125
Hockey	75	125	200	150

If the data about the number of students who play hockey from different schools is represented by a pie-chart, what is the central angle of the sector representing students who play hockey from school C to the nearest whole number?

a. 107°

b. 95°

c. 80°

d. 131°

63. If $a + b + c = 8$ and $ab + bc + ca = 20$, then $a^3 + b^3 + c^3 - 3abc$ is equal to: (+2, -0.5)

- a. 30
- b. 36
- c. 32
- d. 24

64. In $\triangle ABC$, P is a point on BC such that $BP : PC = 4 : 5$ and Q is the midpoint of BP, then $\text{ar}(\triangle ABQ) : \text{ar}(\triangle ABC)$ is equal to: (+2, -0.5)

- a. 1 : 3
- b. 2 : 5
- c. 2 : 9
- d. 1 : 9

65. Walking $\frac{5}{7}$ of his usual speed, a person reaches his office 10 minutes later than the usual time. His usual time in minutes is: (+2, -0.5)

- a. 25
- b. 30
- c. 35
- d. 28

66. **Direction :** The table shows the number of students from different schools playing different games. (+2, -0.5)

Games	Schools			
	A	B	C	D
Cricket	125	250	150	175
Football	175	200	250	125
Hockey	75	125	200	150

What is the average of the number of students who play cricket in all four schools?

- a. 185
- b. 175
- c. 180
- d. 200

67. **Direction :** The table shows the number of students from different schools playing different games. (+2, -0.5)

Games	Schools			
	A	B	C	D
Cricket	125	250	150	175
Football	175	200	250	125
Hockey	75	125	200	150

The number of students who play football in school A is approximately what percent of the football playing students from all schools?

- a. 19.7
- b. 19.4
- c. 19.1
- d. 23.3

68. An article is sold for Rs. 288 after successive discounts of 20% and 25%. (+2, -0.5)
What is the marked price of the article?

- a. Rs. 500
- b. Rs. 460
- c. Rs. 520
- d. Rs. 480

69. If $\sin 3\theta = \cos(20^\circ - \theta)$, then θ is equal to: (+2, -0.5)

- a. 30
- b. 28
- c. 25
- d. 35

70. If $(a - b) = 4$ and $ab = 2$, then $(a^3 - b^3)$ is equal to: (+2, -0.5)

- a. 92
- b. 80
- c. 84
- d. 88

71. In a circle with centre O, an arc ABC subtends an angle of 136° at the centre of the circle. The chord AB is produced to a point P. Then $\angle CBP$ is equal to: (+2, -0.5)

- a. 44°
- b. 66°
- c. 72°
- d. 68°

72. In a class of 50 students, 60% are boys. The average of marks of the boys is 62, and that of the girls is 68. What is the average marks of the whole class? (+2, -0.5)

- a. 64.6
 - b. 64.4
 - c. 64.8
 - d. 65.2
-

73. Six cubes, each of edge 2 cm, are joined end to end. What is the total surface area of the resulting cuboid in cm^2 ? (+2, -0.5)

- a. 104
 - b. 128
 - c. 144
 - d. 96
-

74. What is the value of x so that the seven digit number $55350x2$ is divisible by 72? (+2, -0.5)

- a. 1
 - b. 7
 - c. 3
 - d. 8
-

75. Two articles are sold for Rs. 4,752 each. On one, the seller gains 32% and on the other he loses 28%. What is his overall gain or loss percentage, correct to one decimal place? (+2, -0.5)

- a. 6.8% loss
- b. 6.8% gain
- c. 7.3% loss
- d. 7.3% gain

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English Comprehension

76. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement. (+2, -0.5)

Meera has a friend who parents live in Dubai.

- a. No improvement.
- b. have a friend whom parents live
- c. has a friend which parents live
- d. has a friend whose parents live

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

It is hard to conceive of a more _ _ _ _ _ route than the one that this determined traveler chose to follow.

- a. provoking
- b. daunting
- c. stimulating
- d. dashing

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

Charlie Chaplin's rise to fame paralleled the _ _ _ _ _ growth of Hollywood movies in the first decades of the century.

- a. sluggish

- b. progressing
 - c. delayed
 - d. explosive
-

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

OBSTACLE

- a. Accessory
 - b. Clearance
 - c. Benefit
 - d. Barrier
-

80. In the sentence identify the segment which contains the grammatical error. (+2, -0.5)

The cost of fruits and vegetables have risen abnormally this month.

- a. The cost of
 - b. abnormally
 - c. this month
 - d. have risen
-

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

ENDEAVOUR

- a. Attempt
- b. Success
- c. Result
- d. Achievement

82. In the following passage, some words have been deleted. Fill in the blanks (+2, -0.5) with the help of the alternatives given. Select the most appropriate option for each blank.

M. Ananda Kumar, scientist, of the Nature Conservation Foundation says that elephants are "engineers of the eco-system. He explains: they are seed (1) _____. Forests without (2) _____ have been observed to not have (3) _____ at all. This is because (4) _____ species disperse seeds only through elephants." The animals are phenomenal at (5) _____ themselves to new ecological conditions and negotiating a problem.

Select the most appropriate option to fill in blank No.(1)

- a. eaters
- b. collectors
- c. makers
- d. dispersers

83. Select the correctly spelt word. (+2, -0.5)

- a. centiment
- b. serenity

c. taelant

d. claever

84. Select the most appropriate meaning of the underlined idiom in the given sentence. (+2, -0.5)

We now have an ex-Minister in the running from our constituency for the post of Member of Parliament.

a. jogging everyday

b. teaching yoga

c. giving speeches

d. contesting the seat

85. Given below are four jumbled sentences. Select the option that gives their correct order. (+2, -0.5)

A. Its value is linked to what it is being used for.

B. Such questions often baffle you.

C. How emotional should one get about money and its value?

D. Money on its own has no value, until you have some use for it.

a. DBAC

b. ACDB

c. CABD

d. CBDA

86. In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. (+2, -0.5)

M. Ananda Kumar, scientist, of the Nature Conservation Foundation says that elephants are "engineers of the eco-system. He explains: they are seed (1) _____. Forests without (2) _____ have been observed to not have (3) _____ at all. This is because (4) _____ species disperse seeds only through elephants." The animals are phenomenal at (5) _____ themselves to new ecological conditions and negotiating a problem.

Select the most appropriate option to fill in blank No.(3)

- a. saplings
- b. species
- c. elephants
- d. seeds

87. In the sentence identify the segment which contains the grammatical error. (+2, -0.5)

Cows are amongst the gentlest of animals; none shows more passionate tenderness towards their young ones.

- a. the gentlest of animals
- b. Cows are amongst
- c. none shows more
- d. towards their young

88. Select the correct passive form of the given sentence.

(+2, -0.5)

The artist played the violin.

- a. The violin had been played by the artist.
- b. The violin is being played by the artist
- c. The violin will be played by the artist.
- d. The violin was played by the artist

89. Select the word which means the same as the group of words given.

(+2, -0.5)

Too unimportant to consider

- a. nothing
- b. diminutive
- c. trivial
- d. noticeable

90. Given below are four jumbled sentences. Select the option that gives their correct order.

(+2, -0.5)

- A. Only natural dyes are used in Kalamkari and it involves several steps.
- B. There are two distinctive styles of Kalamkari in India.
- C. They are the Sri Kalahasti style and the Machlipatnam style.
- D. Kalamkari is a type of hand-painted or block-printed cotton textile, produced in the Indian states of Andhra Pradesh and Telangana.

- a. DABC
- b. ACBD
- c. DCBA
- d. CBDA

91. Select the option that can be used as a one-word substitute for the given group of words/phrases. (+2, -0.5)

That which can be drawn into a thin wire

- a. flexible
- b. ductile
- c. brittle
- d. smooth

92. In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. (+2, -0.5)

M. Ananda Kumar, scientist, of the Nature Conservation Foundation says that elephants are "engineers of the eco-system. He explains: they are seed (1) _____. Forests without (2) _____ have been observed to not have (3) _____ at all. This is because (4) _____ species disperse seeds only through elephants." The animals are phenomenal at (5) _____ themselves to new ecological conditions and negotiating a problem.

Select the most appropriate option to fill in blank No.(4)

- a. all

b. certain

c. no

d. every

93. Select the correctly spelt word

(+2, -0.5)

a. fortieth

b. fourthieth

c. fortyeth

d. fortyth

94. In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

(+2, -0.5)

M. Ananda Kumar, scientist, of the Nature Conservation Foundation says that elephants are "engineers of the eco-system. He explains: they are seed (1) _____. Forests without (2) _____ have been observed to not have (3) _____ at all. This is because (4) _____ species disperse seeds only through elephants." The animals are phenomenal at (5) _____ themselves to new ecological conditions and negotiating a problem.

Select the most appropriate option to fill in blank No.(2)

a. engineers

b. conservation

c. seeds

d. elephants

95. In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. (+2, -0.5)

M. Ananda Kumar, scientist, of the Nature Conservation Foundation says that elephants are "engineers of the eco-system. He explains: they are seed (1) _____. Forests without (2) _____ have been observed to not have (3) _____ at all. This is because (4) _____ species disperse seeds only through elephants." The animals are phenomenal at (5) _____ themselves to new ecological conditions and negotiating a problem.

Select the most appropriate option to fill in blank No.(5)

- a. structuring
- b. expanding
- c. adapting
- d. explaining

96. Select the most appropriate antonym of the given word. (+2, -0.5)

WEAKNESS

- a. Illness
- b. Strength
- c. Disability
- d. Bravery

97. Select the most appropriate antonym of the given word. (+2, -0.5)

TYRANT

- a. Benefactor
- b. Champion
- c. Despot
- d. Rival

98. Select the correct active form of the given sentence.

(+2, -0.5)

He was given a book for his birthday by her.

- a. She give a book to him for his birthday.
- b. She has gave him a book for his birthday
- c. She will be giving him a book for his birthday.
- d. She gave him a book for his birthday.

99. Select the most appropriate meaning of the underlined idiom in the given sentence.

(+2, -0.5)

The idea of making a children's park has been nipped in the bud by the local council.

- a. dropped at an early stage
- b. encouraged strongly
- c. will be considered at a later time
- d. changed completely

100. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No improvement'. (+2, -0.5)

Applications are to be sent to the Principal before 30th May.

- a. No improvement
- b. will be send to
- c. are sending to
- d. were being send to

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Answers

1. Answer: c

Explanation:

The pattern followed is:

$$1^3 + 1 = 2$$

Similarly

$$5^3 + 5 = 130$$

Hence, the answer is 130.

2. Answer: d

Explanation:

The pattern followed is:

$$116 + 12 = 128$$

$$128 + 18 = 146$$

$$146 + 24 = 170$$

$$170 + 30 = 200$$

$$200 + 36 = 236$$

Hence, the correct answer is 236.

3. Answer: c

Explanation:

The sequence is as follows :

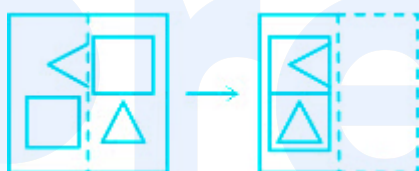
Rash driving – Accident – Injury – Ambulance – Hospital – Treatment

Hence 3-1-4-2-5-6 is the correct answer.

4. Answer: d

Explanation:

If we fold paper on dotted line answer figure will be:



Hence, the correct answer is option 4).

5. Answer: b

Explanation:

Let Current age of Akshan = X

Current age of Savan = $4X$

Age of akshan after 10 years = $X + 10$

Age of Savan after 10 years = $4X + 10$

As given in question,

$$4X + 10 = 2(X + 10)$$

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$$4X + 10 = 2X + 20$$

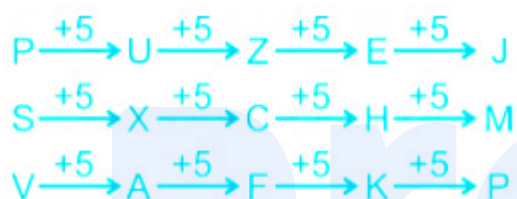
$$X = 5 \text{ and } 4X = 20$$

Hence age of savan is 20 years .

6. Answer: c

Explanation:

Pattern is as follows:



Hence JMP is correct answer.

7. Answer: b

Explanation:

Ohm is the unit of Resistance,

Similarly,

Metre is the unit of Length.

Hence, the correct answer is Length : Metre.

8. Answer: d

Explanation:

Pencil is a stationary

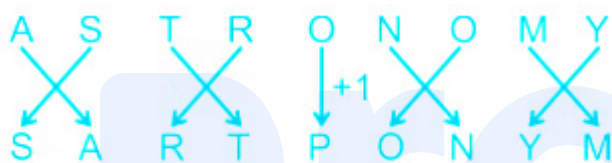
Similarly, Pilates is form of physical exercise

Hence, the correct answer is exercise.

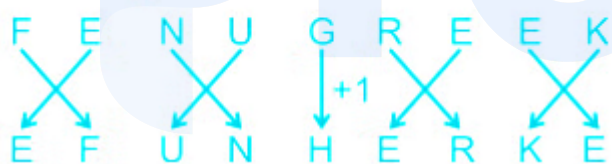
9. Answer: a

Explanation:

Pattern followed is:



Similarly



Hence, EFUNHERKE is the correct answer.

10. Answer: d

Explanation:

Mirror image will be:



Hence, the correct answer is option 4).

11. Answer: a

Explanation:

The pattern followed is:

$$7^2 + 8^2 = 49 + 64 = 113$$

$$11^2 + 12^2 = 121 + 144 = 265$$

Similarly,

$$14^2 + 9^2 = 196 + 81 = 277$$

Hence, 277 is the correct answer.

12. Answer: a

Explanation:

Comical, Hilarious, Humorous all means Something is funny

But meaning of Gagster is Someone who write gags.

Hence, Gagster is the odd among them.

13. Answer: a

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

Pattern is as follows:

$R = 18$, $O = 15$, $U = 21$, $T = 20$, $I = 9$, $N = 14$, $E = 5$.

SIMILARLY

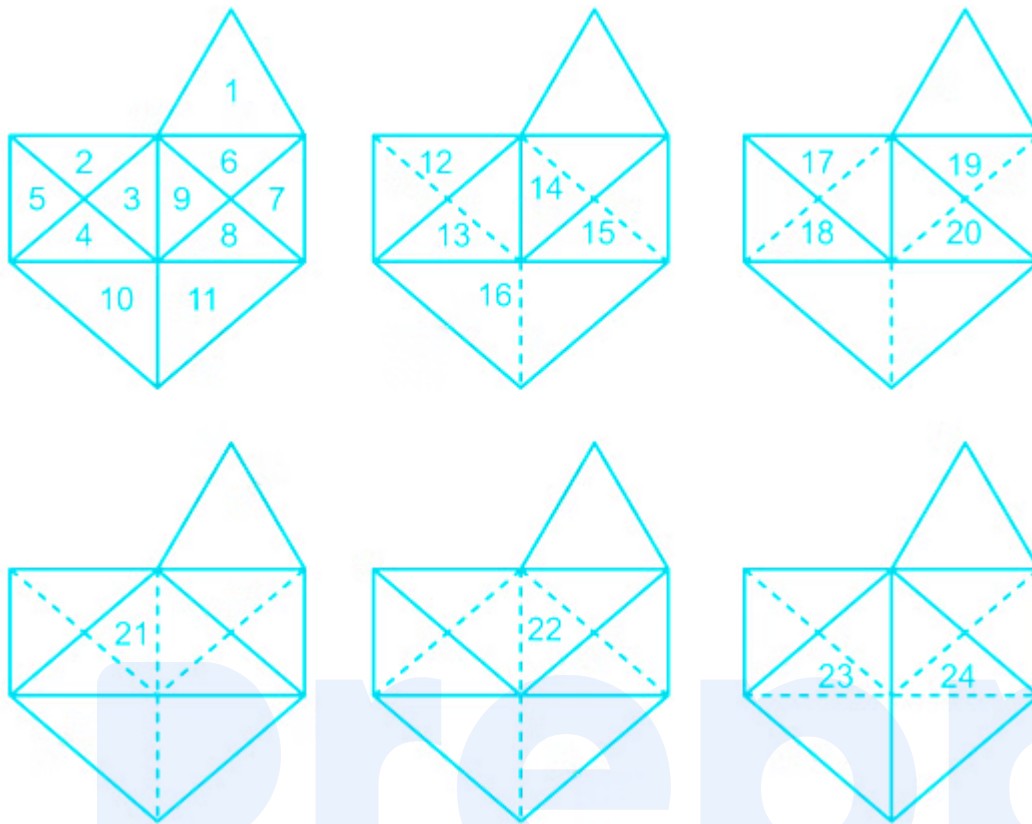
$V = 22$, $E = 5$, $H = 8$, $I = 9$, $C = 3$, $L = 12$, $E = 5$

Hence, answer is VEHICLE = 225893125.

14. Answer: b

Explanation:

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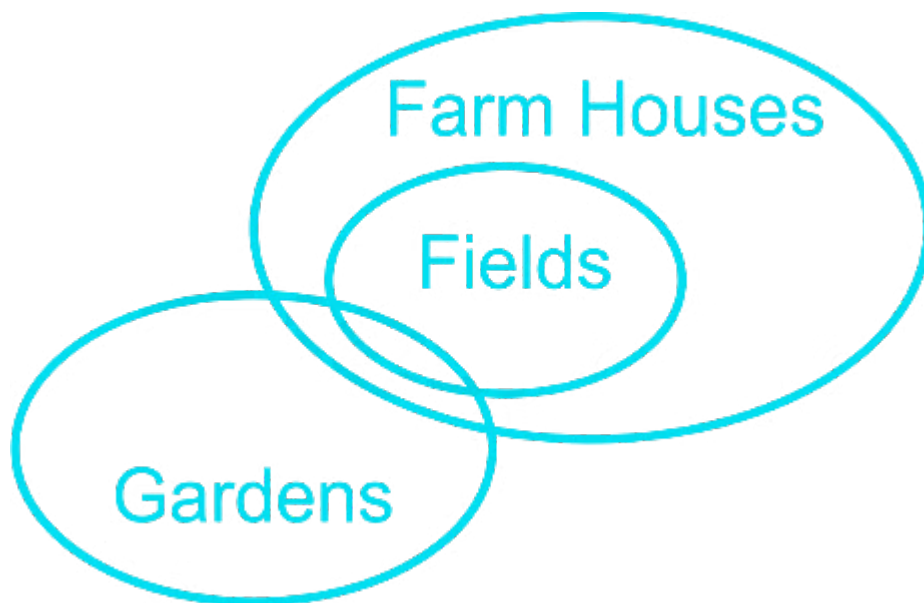


Hence, total number of triangles is 24.

15. Answer: a

Explanation:

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Some farm-houses are fields $\rightarrow$ True.

Some gardens are fields $\rightarrow$ True.

Some farm-houses are gardens $\rightarrow$ True.

Hence all conclusions follow.

16. Answer: b

Explanation:

From given 1st cube diagram we know that 1 and 3 are adjacent to 6.

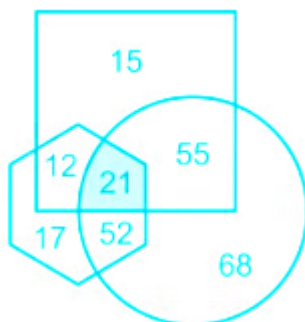
From 2nd cube we know that 2 and 5 are adjacent to 6.

Only one remaining number is 4 and that will be opposite to 6.

Hence 6 will be on face opposite to the one having 4.

17. Answer: b

Explanation:



Only Common space between all categories is given by 21.

Hence farmers who are both land-owners and beneficiaries is shown by 21.

18. Answer: b

Explanation:

The pattern followed is :

$$U + 2 = W + 2 = Y + 2 = A + 2 = C$$

$$P + 2 = R + 2 = T + 2 \neq W + 1 = Y$$

$$C + 2 = E + 2 = G + 2 = I + 2 = K$$

$$M + 2 = O + 2 = Q + 2 = S + 2 = U$$

Hence, PRTWY is the odd one.

19. Answer: d

Explanation:

Pattern is as follows:

Arrow is rotated in clockwise direction in every step and

Position of arrow is changed by one step in anticlockwise direction and arrow is colored in alternate step.

The triangle is moved ahead by one step in clockwise direction and filled with colors in alternate step.



Hence, option 4) is the correct answer.

20. Answer: a

Explanation:

'A + B' means 'A is the daughter of B'.

'A - B' means 'A is the brother of B'.

'A × B' means 'A is the mother of B'.

'A ÷ B' means 'A is the son of B'.

If $U + C \times Q - P \div R \div S - T$ is decoded it means :

U is daughter of C

C is mother of Q

Q is brother of P

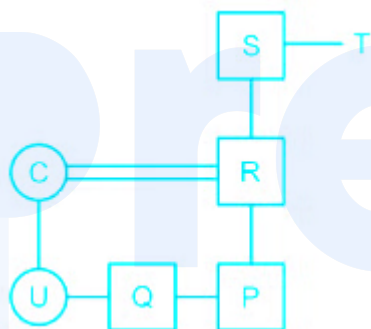
P is son of R

R is son of S

S is brother of T

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married Couple
—	Siblings
	Difference of A Generation

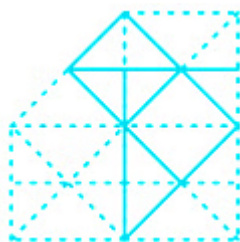
Tree diagram:



Hence, S is the paternal grandfather of U.

21. Answer: a

Explanation:



Hence, 1 is the correct option.

22. Answer: c

Explanation:

Interchanging + and –

$$40 - 10 \div 2 + 8 + 17 = 40 - 5 \times 8 + 17$$

$$40 - 40 + 17 = 17$$

Interchanging $\div$ and $\times$

$$40 + 10 \times 2 \div 8 + 17 = 40 + \frac{5}{2} + 17 \neq 17$$

Interchanging $\times$ and +

$$40 \times 10 \div 2 + 8 - 17 = 40 \times 5 + 8 - 17$$

$$200 + 8 - 17 \neq 17$$

Interchanging $\div$ and –

$$40 + 10 - 2 \times 8 \div 17 = 40 + 10 - \frac{2 \times 8}{17}$$

$$50 - \frac{16}{17} \neq 17$$

Hence by interchanging + and – we get the correct equation.

23. Answer: d

Explanation:

Pattern followed is :

$$\text{In column 1: } 26 - 17 = 9, 9 \times 2 = 18$$

$$\text{In column 2: } 27 - 13 = 14, 14 \times 2 = 28$$

Similarly,

In column 3: $36 - 11 = 25$, $25 \times 2 = 50$

Hence, 36 is the answer.

24. Answer: d

Explanation:

The pattern followed is:

$$4^2 - 1 = 16 - 1 = 15$$

$$7^2 - 1 = 49 - 1 = 48$$

$$9^2 - 1 = 81 - 1 = 80$$

$$6^2 - 1 = 36 - 1 = 35$$

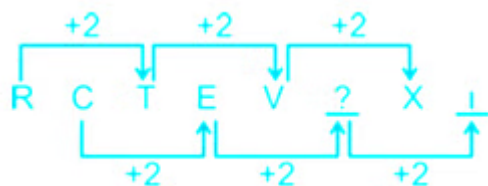
Hence pair 7 : 46 is different from the rest.

25. Answer: d

Explanation:

Pattern followed is:

There are 2 different series in this question



$$E + 2 = G$$

Hence, G is answer.

26. Answer: b

Explanation:

- Hydra is the largest constellation.
 - It measures 1303 square degrees and it is also the longest at over 100 degrees.
 - **Centaurus** is the brightest constellation.
 - **Crux**, also known as the Southern Cross is the smallest constellation.
 - Canis Major constellation contains the **brightest star Sirius**.
 - Constellation is a group of stars that form a particular pattern and are generally named according to the shape it has. There are officially 88 constellations recognized so far.
-

27. Answer: a

Explanation:

- Lok Sabha Speaker certifies the bill as a money bill before sending it to the upper house, and the decision of the Speaker is binding on both the Houses. He/she represents the full authority of the House and decides whether a bill is a money bill or not.
 - A money bill or supply bill is a bill that solely concerns taxation or government spending.
 - The Speaker appoints the Secretary-General of the Lok Sabha.
 - The Lok Sabha speaker is the presiding officer of the Lok Sabha.
 - The Speaker ranks sixth in the hierarchy of State government of India, equivalent with the Chief Justice.
-

28. Answer: d

Explanation:

- Orion constellation is one of the brightest and best known constellations in the night sky. It lies on the celestial equator.
- Orion has been known since ancient times. The constellation is also known as the Hunter, as it is associated with one in Greek mythology.
- It represents the mythical hunter Orion, who is often depicted in star maps as either facing the charge of Taurus, the bull.

29. Answer: d

Explanation:

- Rehuke khim or cowrie shawl is the most important cloth meant for the rich man of the Yimchunger tribe in Nagaland.
- In Naga society, cowrie is a symbol of marital status.
- One of the most common cloth used by both men and women without any restriction is a black shawl called Aneadk Khim.

30. Answer: b

Explanation:

The correct answer is **Time immediately after Question Hour.**

★ Additional Information

<u>Hours in the Indian Parliament</u>	<u>Details</u>
Question Hour	It is the first hour. A Minister is obligated to answer questions either in oral or written form. It is mentioned in the Constitution.
Zero Hour	30 Minute interval after question hour to raise informal queries without prior notice(10 days notice period). It is not mentioned in the Constitution. It starts at 12 noon. It was introduced in the year 1962.
Discussion hour or Half-an-hour discussion	It involves the discussions on a matter of public importance or to get an elucidated answer to a question

31. Answer: b

Explanation:

- **Bend your back:** It is a term used to signify the extra effort put in by a fast bowler to increase his speed using pitch conditions.
- Cricket has many terminologies such as All out, Appeal, Back foot, Bowled, Brace, Covers, Bouncers etc.

Cricket Terminology	Description
Brace	Two wickets were taken off two consecutive deliveries.
Covers	1. A fielding position between point and mid-off. 2. The equipment used to protect the pitch from the rain.
Bouncer	A fast short-pitched delivery that rises up near the batsman's head.

32. Answer: d

Explanation:

- The **Battle of Tukaroi** was fought between Akbar and the Sultanate of Bengal on **3 March 1575**.
- The battle was won by the Mughal forces and it resulted in the Mughal annexation of Bengal.
- This battle was fought in a village called Tukaroi, located in the present day Balasore District in Odisha.

33. Answer: b

Explanation:

- **Oxygen** is the most abundant element found in the earth crust. Oxygen accounts to 46.6% of the Earth Crust.

- $O > Si > Al > Fe > Ca$ are the most abundant element in earth crust.
 - Aluminium is the most abundant metal in the earth's crust.
-

34. Answer: c

Explanation:

- The 2019 Special Olympics World Summer Games were held in Abu Dhabi, UAE from March 14–21, 2019.
 - These were special sports held for athletes with intellectual disabilities and was the first special Olympics to take place in the Middle East.
 - They are held every two years.
 - India won 368 medals which included 85 golds, 154 silver and 129 bronze medals. It was India's ninth year at the event.
 - UAE President – Khalifa bin Zayed Al Nahyan
 - UAE Capital – Abu Dhabi
 - UAE Currency – UAE Dirham
-

35. Answer: d

Explanation:

- The Eastern most village of India is Kibithu, nested in the Mishmi hills of Arunachal Pradesh .
 - It is located in the juncture of India , China and Myanmar.
 - It is located on the last road head of the extreme northeast of northeastern India.
 - The Lohit River enters India at Kibithu.
-

36. Answer: b

Explanation:

- The Gorge of Gandikota is situated on the Pennar River in Andhra Pradesh.
 - It is known as the Grand Canyon of India.
 - The Grand Canyon is located in Arizona, USA.
 - A gorge is a valley formed by a source of water flowing between tall slabs of steep rocks. The Pennar river must have cut rocks in Gandikota over centuries to have formed the Canyon which we see today.
-

37. Answer: d

Explanation:

- Shershah won the Battle of Kanauj on 17th, May 1540.
 - The war fought between Sher Shah and Humayun.
 - After the victory of Shershah, Delhi and Agra were occupied by him.
-

38. Answer: a

Explanation:

- Rabindranath Tagore was one of the founders of Dartington Hall School in Japan.
 - Gitanjali is a collection of poems written by him. Tagore received the Nobel Prize for Literature for this work.
 - On May 7 his birth anniversary was celebrated all over India.
 - Songs written by are used as the national anthem for India and Bangladesh.
-

39. Answer: b

Explanation:

- An Indian short film titled '**Period. End of Sentence**' has earned a nomination in the Documentary Short Subject category for the 91st Academy Awards.
- The short film was directed by Rayka Zehtabchi.
- Other documentary short films that were nominated are 'Black Sheep', 'End Game', 'Lifeboat', and 'A Night at the Garden'.

40. Answer: b

Explanation:

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<u>Association</u>	<u>Members/Founders</u>	<u>Purpose</u>
Indian association(1876)	Surendranath Banerjee, Ananda Bose	Promoting by legitimate means, the political, intellectual and material advancement of the people, It later merged with the Indian National Congress
East India Association(1867)	Dadabhai Naoroji	Its goal was to make the people of the UK aware of the conditions in India and generate popular support among British People for Indian Welfare.
Bombay Association(1852)	Jamshedji Jejbhai, Jagannath Shankarshet, Naoroji Fursungi, Dr. Bhau Daji Lad, Dadabhai Naoroji and Vinayak Shankarshet.	They aimed to address public grievances through Legal agitational means
Poona Sarvanjanik Sabha(1870)	Mahadev Govind Ranade, Lokmanya Tilak	They aimed to be a connecting link between the Government and the common people.It also worked for the legal rights of the peasants.
Bengal Landholder's Society(1836)	Prasanna Kumar Tagore, Dwarkanath Tagore and Radhakant Deb	The main purpose of the organisation was safeguarding the interests of Landlords. They used constitutional methods of agitation to fulfil their demands.

41. Answer: c

Explanation:

- If Firms located in India Increase productivity , more business is done by them, leading to greater profits and enhanced economic activity.
- Gross domestic product is the measure of a country's domestic economic activities.
- It is the sum of prices or market values of all the final goods and services which are produced in an economy during a specific period of time.

42. Answer: b

Explanation:

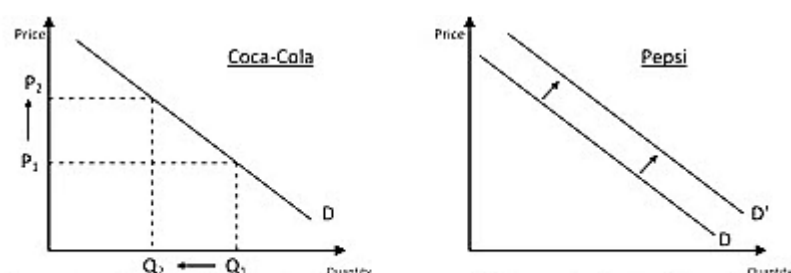
- Sachin Tendulkar, from 1992–2011 has hit a total of 2278 runs in World cup matches, with the highest number of centuries(6) and the highest number of 4's(241).
- He is followed by Ricky Pointing with 1743 runs.

<u>World Cup Trivia</u>	<u>Details</u>
Highest team score	417–6 made by Australia against Afghanistan in 2015.
Lowest team score	36 runs made by Canada against Sri Lanka in 2003.
Highest match aggregate	688–18 was between Australia vs Sri Lanka in 2015.
The highest successful run chase	329–7 was done by Ireland against England in 2011.
Most wins	Australia has won 62 matches in all world cups followed by New Zealand at 48 matches.

43. Answer: c

Explanation:

The correct answer is Outward shift



Suppose the price of Coca-Cola rises from P_1 to P_2 because one of the inputs rises in price. This would cause people to consume less Coca-Cola, decreasing the quantity sold from Q_1 to Q_2 . For the substitute good Pepsi, the demand curve would shift out for all price levels from D to D' , leading to more Pepsi being consumed.

44. Answer: b

Explanation:

Process	Conversion/Details
Sublimation	Solid directly change into the gaseous state, without forming any liquid state
Evaporation	Vaporization that occurs on the surface of a liquid as it changes into the gas phase
Condensation	Conversion of gas to liquid.
Decantation	Process for the separation of mixtures of immiscible liquids or of a liquid and a solid mixture such as a suspension.

45. Answer: b

Explanation:

<u>Lusei dialect, Mizoram State</u>	• The <u>Duhlian dialect</u>, also known as the <u>Lusei</u> among the locals was the most popular language of Mizoram. • The <u>Lusei dialect</u> has dispersed into the numerous tribes present in <u>Mizoram</u>. • The earliest Mizo's who migrated to India were known as Kukis. The Lushais were the last of the Mizo tribes migrate to India.
	<u>Additional Information</u> • The <u>53rd Constitutional Amendment Act 1986</u> gave recognition to Mizoram as a full-fledged state of Indian. • Mizoram has been given special provision under <u>Article 371 (G)</u>. • Article 371(G) of the Constitution states that the Parliament cannot decide on the matters of the religious and social practices of the Mizo's, civil and criminal law of the land, land ownership transfer, and customary law procedure without the consent of the State Assembly

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46. Answer: a

Explanation:

- Sahyadri or the Benevolent Mountains are also known as the Western Ghats.
- They run from Gujarat to Tamil Nadu.
- The Western Ghats, located in India is a UNESCO World Heritage Site which runs parallel to the west coast of the Indian peninsula.

47. Answer: a

Explanation:

- The author of the book 'The Bird of Time: Songs of Life, Death and the Spring' is Sarojini Naidu.
- She was the first female to become the governor of an Indian state. She became governor of Uttar Pradesh.
- She is also known as 'Nightingale of India'. She also wrote poetry, her works include Golden Threshold, The Bird of Time, The Sceptred Flute and The Feather of the Dawn.

<u>Books</u>	<u>Authors</u>
My Experiments with Truth, Hind Swaraj, Key to Health	Mahatma Gandhi
Discovery of India, Glimpses of World History	Jawaharlal Nehru
Golden Threshold, The Broken Wing, Songs of Life, Death & the Spring, The Birds of Time, Songs of Life, Death & the Spring, The Sceptred Flute: Songs of India, The Feather of the Dawn	Sarojini Naidu
India Divided	Dr. Rajendra Prasad
Poverty and Un-British Rule in India	Dadabhai Naoroji
Geeta Rahashya, The Arctic Home in the Vedas	Bal Gangadhar Tilak
The Indian War of Independence of 1857	V.D. Savarkar
Unhappy India	Lala Lajpat Rai

48. Answer: d

Explanation:

The correct answer is New Delhi.

★ Key Points

- National War Memorial Delhi is spread across 40 acres in New Delhi.
- Prime Minister Narendra Modi dedicated a **new National War Memorial** situated in the India gate complex, in New Delhi.
- It is built to Honour the Indian Armed Forces and is built around the existing canopy near India Gate.
- The memorial wall is flushed with the ground and in harmony with existing aesthetics.
- The names of armed forces personnel martyred during the armed conflicts of Indo-Pakistani War of 1947, 1961 War in Goa, Sino-Indian War, Indo-Pakistani War of 1965, Indo-Pakistani War of 1971, 1987 (Siachen), 1987-88 (Sri Lanka), 1999 (Kargil), and other operations such as Operation Rakshak, are inscribed on the memorial walls
- National War Museum is located in Princess Park, near India Gate, New Delhi.
- It is built in memory of all Indian soldiers who have made the supreme sacrifice for the country post-Independence.
- Prime Minister Narendra Modi inaugurated the National War Memorial in Delhi on **25 February 2019**.



49. Answer: b

Explanation:

- Sir Syed Ahmed Khan is associated with the Aligarh Movement. He organised and founded the Aligarh Movement in 1875.
- It was based in Mohammedan Anglo-Oriental College, Aligarh.
- Major objectives of the Aligarh Movement:
 1. To provide modern education among Indian Muslims without weakening their allegiance to Islam.
 2. To initiate social reforms among Muslims relating to purdah, polygamy, widow remarriage, women's education, slavery, divorce, etc.

50. Answer: c

Explanation:

- Tesla is the SI unit of magnetic field.

- Magnetic field strength is one of two ways that the intensity of a magnetic field can be expressed.
- Technically, a distinction is made between magnetic field strength H , measured in amperes per meter (A/m), and magnetic flux density B , measured in Newton - meters per ampere (Nm/A), also called Tesla (T).
- 1 Tesla equals to 104 Gauss. The smaller unit being gauss.

51. Answer: d

Explanation:

Follow BODMAS rule to solve this question, as per the order given below:

Step-1: Parts of an equation enclosed in 'Brackets' must be solved first, and in the bracket,

Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step-3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step-4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

$$\Rightarrow 21.6 \div 3.6 \times 2 + 0.25 \times 16 \div 4 - 6$$

$$\Rightarrow 6 \times 2 + 0.25 \times 4 - 6$$

$$\Rightarrow 12 + 1 - 6$$

$$\Rightarrow 7$$

52. Answer: a

Explanation:

As we know,

$$\Rightarrow (x + 1/x)^2 = x^2 + 1/x^2 + 2$$

Given, $\sqrt{x} - 1/\sqrt{x} = \sqrt{5}$

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

$$\Rightarrow [\sqrt{5}]^2 = x + 1/x - 2$$

$$\Rightarrow x + 1/x = 5 + 2 = 7$$

$$\Rightarrow (x + 1/x)^2 = x^2 + (1/x)^2 + 2$$

$$\Rightarrow 7^2 = x^2 + 1/x^2 + 2$$

$$\Rightarrow x^2 + 1/x^2 = 49 - 2 = 47$$

53. Answer: a

Explanation:

$$3\sin \theta = 2\cos \theta$$

$$\sin \theta / \cos \theta = 2/3$$

$$\tan \theta = 2/3$$

$$\frac{4 \sin \theta - \cos \theta}{4 \cos \theta + \sin \theta}$$

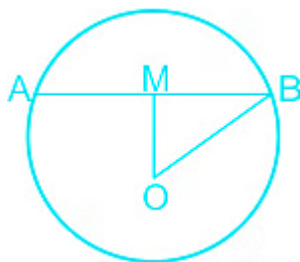
Divide by $\cos \theta$

$$\Rightarrow \frac{4 \tan \theta - 1}{4 + \tan \theta}$$

$$\Rightarrow \frac{4 \times \frac{2}{3} - 1}{4 + \frac{2}{3}} = \frac{\frac{8}{3} - 1}{\frac{14}{3}} = \frac{\frac{5}{3}}{\frac{14}{3}} = \frac{5}{14}$$

54. Answer: d

Explanation:



Let AB is chord and point M is the midpoint of AB, O is the centre

Given, $OM = 15$ cm and Radius $OB = 17$ cm

In $\triangle OMB$

Using Pythagoras theorem

$$\Rightarrow (OB)^2 = (OM)^2 + (MB)^2$$

$$\Rightarrow 17^2 = 15^2 + (MB)^2$$

$$\Rightarrow MB = \sqrt{(289 - 225)} = 8$$

As, we know, $AB = 2 MB$

$$AB = 2 \times 8 = 16 \text{ cm}$$

55. Answer: c

Explanation:

Let the initial price of sugar be $100x$

$$\text{Price of sugar after increased} = 100x \times [128/100] = 128x$$

Person wants his expenditure increase by 22% only,

So, his expenditure = $100x \times [122/100] = 122x$

Required percentage = $[(128 - 122x)/128] \times 100 = 4.7\%$ (approx)

56. Answer: c

Explanation:

As we know,

Difference between the compound interest and simple interest for 2 years formula,

Given, $r = 11\%$, time = 2 years and $P = x$

$$\Rightarrow Pr^2/(100)^2 = \text{difference}$$

$$\Rightarrow (P \times 11 \times 11)/100 \times 100 = 60.50$$

$$\Rightarrow P = 5000$$

57. Answer: b

Explanation:

$$a : b = 5 : 7$$

Let a be 5 and b be 7.

$$\Rightarrow (5a - 3b) : (4a - 2b)$$

$$\Rightarrow (5 \times 5 - 3 \times 7) : (4 \times 5 - 2 \times 7)$$

$$\Rightarrow (25 - 21) : (20 - 14)$$

$$\Rightarrow 4 : 6 = 2 : 3$$

58. Answer: a

Explanation:

The efficiencies of A, B and C are in the ratio of 2 : 5 : 3

$$\text{Total work} = (2 + 5 + 3) \times 12 = 120$$

$$30\% \text{ of the total work} = 120 \times 30/100 = 36$$

$$30\% \text{ of the total work completed by A in} = 36/2 = 18$$

59. Answer: d

Explanation:

$$\sin^2 42^\circ + \sin^2 48^\circ + \tan^2 60^\circ - \operatorname{cosec} 30^\circ$$

$$\Rightarrow \sin^2 42^\circ + \sin^2 (90 - 42)^\circ + (\sqrt{3})^2 - 2$$

$$\Rightarrow \sin^2 42^\circ + \cos^2 42^\circ + 3 - 2 [\sin(90 - \theta) = \cos \theta \text{ and } \sin^2 \theta + \cos^2 \theta = 1]$$

$$\Rightarrow 1 + 3 - 2$$

$$\Rightarrow 2$$

60. Answer: b

Explanation:

Given:

$$\Delta ABC \sim \Delta EDF,$$

$$AB = 7 \text{ cm},$$

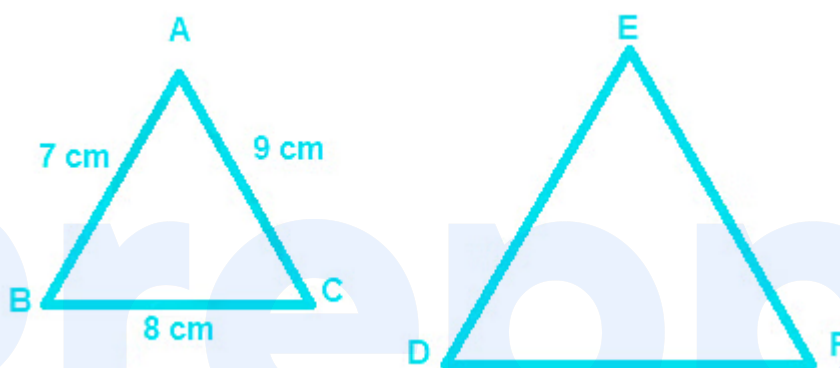
BC = 8 cm,

CA = 9 cm and $\text{ar}(\triangle ABC) : \text{ar}(\triangle EDF) = 1/4$

Concept used:

When two triangles are similar then the ratio of their area is equal to the ratio of the square of their corresponding sides.

Calculation:



As we know,

$\text{ar}(\triangle ABC) / \text{ar}(\triangle EDF) = (BC/DF)^2$ (As the triangles are similar)

$$\Rightarrow 1/4 = 8^2/DF^2$$

$$\Rightarrow DF^2 = 8^2 \times 4$$

$$\Rightarrow DF = 8 \times 2 = 16 \text{ cm}$$

$\therefore$ DF is equal to 16 cm.

61. **Answer: c**

Explanation:

Total students who play cricket in schools A and B together = $125 + 250 = 375$

Total students who play hockey in schools C and D together = $200 + 150 = 350$

Required ratio = $375 : 350 = 15 : 14$

62. Answer: d

Explanation:

Total students who play hockey of all four schools = $75 + 125 + 200 + 150 = 550$

Total students who play hockey of school C = 200

550 students represent = 360°

200 students will represent = $360/550 \times 200 = 131^\circ$ (approx)

63. Answer: c

Explanation:

Given, $a + b + c = 8$ and $ab + bc + ca = 20$

As we know, $a^3 + b^3 + c^3 - 3abc = (a + b + c) [(a + b + c)^2 - 3(ab + bc + ca)]$

$$\Rightarrow 8 [8^2 - 3 \times 20]$$

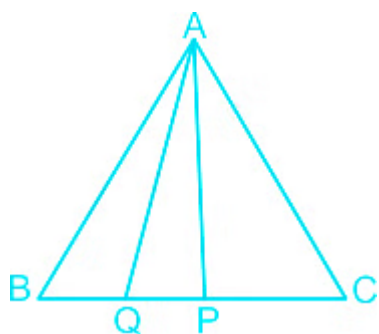
$$\Rightarrow 8 (64 - 60)$$

$$\Rightarrow 8 \times 4$$

$$\Rightarrow 32$$

64. Answer: c

Explanation:



Given, $BP : PC = 4 : 5$

Let BP be 4 unit and PC be 5 unit

$BC = BP + PC = 4 + 5 = 9$ unit

If Q is the midpoint of BP, then $BQ = QP$

$BQ = BP/2 = 4/2 = 2$ unit

or $\Delta ABQ : \Delta ABC = BQ : BC$

or $\Delta ABQ : \Delta ABC = 2 : 9$

65. Answer: a

Explanation:

As we know,

Time is inversely proportional to speed.

Let usual speed of the person be $7x$

Speed of the person after decreasing = $5x$

Ratio of usual speed to after decreasing = $7x : 5x$

Ratio of usual time to after decreasing = $5x : 7x$

$7x - 5x = 10$

$$\Rightarrow x = 5$$

$$\therefore 5x = 5 \times 5 = 25 \text{ min}$$

66. Answer: b

Explanation:

Total students who play cricket of all four schools = $125 + 250 + 150 + 175 = 700$

Required average = $700/4 = 175$

67. Answer: d

Explanation:

Number of students who play football in school A = 175

Total number of students who play football of all four schools = $175 + 200 + 250 + 125 = 750$

Required percentage = $[175/750] \times 100 = 23.3\%$ (approx)

68. Answer: d

Explanation:

MP of the article Rs. x

According to the question

$$\Rightarrow x \times [80/100] \times [75/100] = 288$$

$$\Rightarrow x = 480$$

MP of the article = Rs. 480

69. Answer: d

Explanation:

$$\Rightarrow \sin 3\theta = \cos(20^\circ - \theta),$$

$$\Rightarrow \sin 3\theta = \sin[90^\circ - (20^\circ - \theta)] \quad [\sin(90^\circ - \theta) = \cos \theta]$$

$$\Rightarrow 3\theta = 90^\circ - 20^\circ + \theta$$

$$\Rightarrow 2\theta = 70^\circ$$

$$\Rightarrow \theta = 35^\circ$$

70. Answer: d

Explanation:

$$\Rightarrow (a - b)^3 = a^3 - b^3 - 3ab(a - b)$$

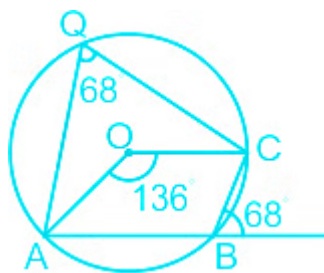
$$\text{Given, } a - b = 4 \text{ and } ab = 2$$

$$\Rightarrow 4^3 = (a^3 - b^3) - 3 \times 2 \times 4$$

$$\Rightarrow (a^3 - b^3) = 64 + 24 = 88$$

71. Answer: d

Explanation:



The angle subtended by an arc at the centre of a circle is double the size of the angle subtended by the same arc at the circle circumference

Take any point Q on the circumference and join AQ and QC .

$$\therefore \angle AOC = 2 \times \angle AQC$$

$$\Rightarrow \angle AQC = \frac{1}{2} \times \angle AOC = \frac{1}{2} \times 136^\circ = 68^\circ$$

Now, $\angle CBP = \angle AQC$ [Exterior angle of cyclic quadrilateral]

$$\Rightarrow \angle CBP = 68^\circ$$

72. Answer: b

Explanation:

Total number of students in the class = 50

Number of boys in class = $50 \times \frac{60}{100} = 30$

Number of girls in class = $50 - 30 = 20$

Average marks of girls = 68

Sum of marks of girls = $68 \times 20 = 1360$

Average marks of boys = 62

Sum of marks of boys = $62 \times 30 = 1860$

Total sum of marks of all class = $1360 + 1860 = 3220$

Average marks of whole class = $3220/50 = 64.4$

73. Answer: a

Explanation:

Side of each cube = 2 cm

Six cubes are joined end to end, then length of newly formed cuboid = $2 \times 6 = 12$ cm

Breadth of newly formed cuboid = 2 cm

Height of newly formed cuboid = 2 cm

As we know,

Total surface area of cuboid = $2(lb + bh + hl)$

$$\Rightarrow 2(12 \times 2 + 2 \times 2 + 2 \times 12)$$

$$\Rightarrow 2(24 + 4 + 24)$$

$$\Rightarrow 2 \times 52$$

$$\Rightarrow 104 \text{ cm}^2$$

74. Answer: b

Explanation:

Divisibility law of 8 $\Rightarrow$ A number divisible by 8 if its last three digit is divisible by 8.

Divisibility law of 9 $\Rightarrow$ A number divisible by 9 if sum of its digit is divisible by 9.

$\Rightarrow 55350x2$ divisible by 8 if $x = 3$ or 7

If we put $x = 3$, then number become 5535032 which not divisible by 9

If we put $x = 7$, then number become 5535072 which divisible by 9, so we can say $x = 7$.

75. Answer: a

Explanation:

Given:

SP of each article = Rs 4,752

Profit obtained on first item = 32%

Loss obtained on second item = 28%

Concept used:

$\text{Loss \%} = (\text{Total CP} - \text{Total SP}) / \text{Total CP} \times 100$

Calculation:

CP of first article = $4,752 \times [100/132] = 3600$

CP of second article = $4,752 \times [100/72] = 6600$

Total SP of both article = $4,752 \times 2 = 9504$

Total CP of both article = $3600 + 6600 = 10,200$

Total loss (as $\text{CP} > \text{SP}$) = $10,200 - 9504 = 696$

Loss percentage = $[696/10,200] \times 100 = 6.8\%$ (approx)

$\therefore$ The overall loss percentage in the transaction is 6.8%.

76. Answer: d

Explanation:

Here the correct answer is **H as a friend whose parents live.**

★ Key Points

:-

- **Whose** is the possessive form of **who** and is used to show that a particular thing belongs to some person.
- In the given sentence, **whose** is needed to clearly define whose parents are being referred to here.
- Whose is the possessive form of who.
- Whose is a **pronoun** used in questions to ask who owns something or has something. In other words, whose is about possession.
- None of the other options make sense.

Therefore, the correct sentence is *Meera has a friend whose parents live in Dubai.*

77. Answer: b

Explanation:

The correct answer is daunting

★ Key Points

- Out of the given options, only **daunting** makes sense when used to describe a **route**. It means **intimidating or difficult to deal with in prospect**.
Example: *The country was faced with the daunting prospect of overcoming four decades of division.*
- Here are the meanings of the other options:
 - **Provoking** – causing a reaction, esp. a negative one.
Example: *The prospect of increased prices has already provoked an outcry.*

- **Stimulating** – encouraging or arousing interest.
Example: *The classes look attractive and stimulating.*
 - **Dashing** – attractive and stylish.
Example: *He was the very model of the dashing RAF pilot.*
 - Hence, **option 2 is correct.**
-

78. Answer: d

Explanation:

The correct answer is explosive

★ Key Points

- Here are the meanings of the other options:
 - **Sluggish** – moving slowly.
 - **Progressing** – moving forward.
 - **Delayed** – late or slow.
 - Taking cues from the context of the given sentence, we know that the blank must represent something that **parallels** (meaning resembles) Charlie Chaplin's rise to fame.
 - The word **explosive** is perfect to describe this quality as it means sudden and dramatic when used as an adjective.
 - We can see that none of these options fits the context. Therefore, **option 4** is correct.
 - **Thus, the complete sentence is:** *Charlie Chaplin's rise to fame paralleled the **explosive** growth of Hollywood movies in the first decades of the century.*
-

79. Answer: d

Explanation:

The correct answer is barrier

★ Key Points

- The word **obstacle** is defined as something that **blocks one's way forward**.
- Out of the given options, this is closest in meaning to the word **barrier**. Hence, the correct answer is **option 4**.
- **Here are the meanings of the other words:**
 - **Accessory** – something that can be added to another thing to make it more useful or attractive.
 - **Clearance** – permission from an authority.
 - **Benefit** – an advantage gained from something.

80. Answer: d

Explanation:

The correct answer is have risen

★ Key Points

- 'has risen' should be there in place of 'have risen'
- Usually, we **match the verb with the nearest subject** but this is wrong. Match the verb with the main subject of the sentence.
- **Example:**
 - *The quality of apples is good.*

Thus, the correct sentence is: *The cost of fruits and vegetables **has** risen abnormally this month.*

81. Answer: a

Explanation:

The correct answer is attempt

★ Key Points

- The word **endeavour** means an attempt to achieve a goal.
Example: *In spite of our best endeavours, it has proven impossible to contact her.*
- Therefore, **option 1 is correct.**

★ Additional Information

The other words as used in example sentences are:

- **Success** : the achieving of the results wanted or hoped for
Example: *The **success** of almost any project depends largely on its manager.*
- **Result** : something that happens or exists because of something else
Example: *The road has been widened, but the **result** is just more traffic.*
- **Achievement** : something very good and difficult that you have succeeded in doing
Example: *An Olympic silver medal is a remarkable **achievement** for one so young.*

82. Answer: d

Explanation:

Let's look at the context of the sentence. The first sentence calls elephants the **engineers** of the eco-system, meaning that they actively do something that helps the forests.

Elephants cannot make seeds, and them eating or collecting seeds cannot help the forests in any way. Therefore, they must be **seed dispersers** and **option 4** must be correct. The following sentences support the same.

The word **disperse** means to **spread over a wide area**.

Option 4 is correct

83. Answer: b

Explanation:

The only word that is correctly spelt here is **Serenity** .

It is defined as **the state of being calm and peaceful** . Therefore, **option 2** is correct.

The other words should be spelt as:

- ~~Sentiment~~ – **Sentiment**
- ~~Taelant~~ – **Talent**
- ~~Claever~~ – **Cleaver**

84. Answer: d

Explanation:

The correct answer is contesting the seat

★ Key Points

- The idiom **in the running** means **to be considered or to be in the contention for a position or award**
- Only **option 4** fits this context, therefore it is the correct answer.

85. Answer: d

Explanation:

The first sentence of the passage should stand independently in meaning. Therefore, **sentence A or sentence B** cannot be the first sentence and hence, option 2 is incorrect.

If **D** is the first sentence, then it is followed by sentence **B**. This does not make sense as **B** starts with **such questions** which do not follow logically from **sentence D**. Therefore, **option 1 is incorrect**.

However, the phrase **such questions** in **sentence B** does make sense when it follows **sentence C**, which is a question.

Therefore, **option 4 is correct**.

86. Answer: a

Explanation:

To understand this solution, we need to look at the previous two blanks. From the previous two sentences, we know that elephants disperse seeds and help in the growth of the eco-system.

Knowing this, the only word that makes sense in the given blank is **saplings** which means **young trees**. Unlike the other options, this is the only word that helps clarify the way in which elephants contribute to the growth of the forests.

Hence, **option 1 is correct**.

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87. Answer: c

Explanation:

The word **none** can be quite tricky.

In certain cases, it can be used to mean **not one**. In this case, it is singular and takes a singular verb.

For eg. None of the traitors *was* me.

But in other cases, it can be used to mean **not any**. In this case, it is plural and takes a plural verb.

For eg. None of the traitors *were* women.

In the given sentence, the meaning that applies is **not any**. Therefore, **none** will be plural and take the plural verb **show**.

Hence, option 3 has the error.

88. Answer: d

Explanation:

An active sentence in the simple past tense is converted into passive with the following pattern:

Object + *was/were* + past participle of verb + *by* + Subject

We can see that **option 4** follows this pattern and therefore, is the **correct answer**.

89. Answer: c

Explanation:

The word **trivial** means **too unimportant to consider**. Hence, **option 3** is correct.

Diminutive means extremely small while

Noticeable means **easily seen or noticed**.

90. Answer: a

Explanation:

The correct answer is option 1 i.e. DABC.

The first sentence of the passage should stand independently in meaning. Since this is only true for **sentence D**, it must be the first sentence.

Therefore, **option 2 and option 4** are incorrect.

Option 3 states that **sentence C** follows **sentence D**. This doesn't make sense since **C** describes **styles** but that can't refer to anything mentioned in **D**.

Therefore, **option 1 is correct**.

91. Answer: b

Explanation:

The correct answer is ductile

★ Key Points

- Let's look at meanings of all the given words:
 - Flexible** – able to be easily bent without breaking.
 - Ductile** – able to be drawn into a thin wire.
 - Brittle** – delicate and easily broken.
 - Smooth** – having an even, regular surface.

We can see that **ductile** is the word we're looking for here. Hence, **option 2 is correct**.

92. Answer: b

Explanation:

So far, we've understood from the passage that elephants disperse seeds and help in the growth of forests. Therefore, **option 3 is incorrect**.

All and every do not make sense because it is impossible that all plant species depend only on elephants to have its seeds dispersed.

Therefore, the correct answer is **certain i.e. some but not all**.

The **correct option is 2**.

93. Answer: a

Explanation:

This is a commonly misspelt word. The correct spelling of the word is **fortieth**.

Hence, **option 1 is correct**.

94. Answer: d

Explanation:

If we look at the overall context of the passage, we can see that it focuses on **elephants**. The first and second sentences clearly focus on their importance in the eco-system.

Therefore, it follows that the word we're looking for is **elephants** here. None of the other words fit the context.

Hence **option 4 is correct**.

95. Answer: c

Explanation:

Elephants cannot **explain or structure** themselves, therefore **options 1 and 4 are incorrect**.

Out of the other two options, we can take a hint from the words **new ecological conditions** in the last sentence. Clearly, the blank requires a verb that means **to adjust to new surroundings**. The word **adapting** fits the context here.

Hence, **option 3 is correct**.

96. Answer: b

Explanation:

The correct answer is Strength

★ Key Points

- **Weakness** means a decrease in the strength in one or more muscles
- **Strength** means the quality or state of being physically strong
- Thus, 'strength' is the antonym of 'weakness'

★ Additional Information

- **Disability** means a physical or mental condition that limits a person's movements, senses, or activities.
- **Illness** means a disease or period of sickness affecting the body or mind
- **Bravery** means courageous behaviour or character

97. Answer: a

Explanation:

The correct answer is **benefactor**.

★ Key Points

- The word **tyrant** means **a cruel and oppressive ruler**.
- **Benefactor** means **someone who helps another person or cause**.

- Therefore, option 1 is correct.

★ Additional Information

- Here are the meanings of the other words:
 - **Champion** – a person who surpasses all rivals.
 - **Despot** – a ruler or other person who holds absolute power, typically one who exercises it in a cruel or oppressive way.
 - **Rival** – a person competing with another.
- As we can see, none of these words has meanings that would make them the ideal antonym for a **tyrant**.

98. Answer: d

Explanation:

The passive sentence is in the simple past tense and so it follows that its active sentence must also be in the same tense.

Therefore, options 1, 2 and 3 must be incorrect. Hence, **option 4 is correct**.

To double-check: An active sentence in simple past tense follows this pattern to turn into passive:

was/were + past participle form of the verb

We can see that if we convert the active, simple past sentence in **option 4** to passive, it becomes the given sentence.

99. Answer: a

Explanation:

The given idiom can be defined as **to stop something before it has an opportunity to be established**.

None of the options, except option 1, convey this meaning. Therefore **option 1 is correct**.

100. **Answer: a**

Explanation:

When we want to express something formally as a definite instruction or something that has to be done, we can use this pattern:

be verb + to + verb

For eg. The students are to gather in the assembly hall.

The house is to be sold off by next month.

Therefore, the sentence **needs no improvement**, and **option 1 is correct**.

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