



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC CHSL 2017 (Tier-I) Previous Year Paper (23-Mar-2018) (Shift 1)

Total Time: 1 Hour

Total Marks: 200

Instructions

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

- 1.) A total of 60 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

English Language

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

- a. Floundar
- b. Flounder
- c. Flaunder
- d. Flaundar

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

I say a small

A- prayer whenever I ring

B- next assignment

C- the doorbell to my

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

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

We kept aside our clothes, (clean) our hiking boots and made sure we had our thick woollen socks.

- a. Cleaned
- b. Cleans
- c. To clean
- d. No improvement

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

The diesel engines replaced the steam engines and the old first class coaches (is replaced) by coupes in a corridor.

- a. Was replaced
- b. Were replaced
- c. Were replace
- d. No improvement

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

A characteristic of one thing that is suggestive of another

- a. Antithetic
- b. Disparate
- c. Conjecture

d. Reminiscence

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

Rude in a mean-spirited and surly way

- a. Affable
 - b. Churlish
 - c. Cordial
 - d. Genteel -
-

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

A sight for sore eyes

- a. An ugly sight unpleasant to the eyes.
 - b. When one becomes tired of watching too much TV or reading.
 - c. A person or thing that one is extremely pleased or relieved to see.
 - d. A beautiful sight that you can visualise even with closed eyes.
-

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

Be out of order

- a. Some goods which are out of stock.

- b. Do something against the court's ruling.
- c. A device not working properly or at all.
- d. Things kept in an organized manner.

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

We must remember that we cannot create a draconian state _____ order to end corruption. The moral transformation of civil society must be _____ and based on persuasive leadership. A _____ definition of a sustainable lifestyle must be voluntarily accepted. Only _____ will the competitive urge to make more and more money end. Money should become meaningful, moral and deeply _____. If true wealth is found in a rich heart, no one will want to touch money even with a barge pole.

draconian state _____ order to end corruption.

- a. Into
- b. So
- c. In
- d. For

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

We must remember that we cannot create a draconian state _____ order to end corruption. The moral transformation of civil

society must be _____ and based on persuasive leadership.
A _____ definition of a sustainable lifestyle must be voluntarily accepted. Only _____ will the competitive urge to make more and more money end. Money should become meaningful, moral and deeply _____. If true wealth is found in a rich heart, no one will want to touch money even with a barge pole.

society must be _____ and based on

- a. Nature
- b. Natural
- c. Naturally
- d. Naturism

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

We must remember that we cannot create a draconian state _____ order to end corruption. The moral transformation of civil society must be _____ and based on persuasive leadership. A _____ definition of a sustainable lifestyle must be voluntarily accepted. Only _____ will the competitive urge to make more and more money end. Money should become meaningful, moral and deeply _____. If true wealth is found in a rich heart, no one will want to touch money even with a barge pole.

A _____ definition of a sustainable lifestyle

- a. Clearly
- b. Clarity

c. Clarification

d. Clear

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

We must remember that we cannot create a draconian state _____ order to end corruption. The moral transformation of civil society must be _____ and based on persuasive leadership. A _____ definition of a sustainable lifestyle must be voluntarily accepted. Only _____ will the competitive urge to make more and more money end. Money should become meaningful, moral and deeply _____. If true wealth is found in a rich heart, no one will want to touch money even with a barge pole.

Only _____ will the competitive urge

a. Than

b. Thus

c. So

d. Then

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

We must remember that we cannot create a draconian state _____ order to end corruption. The moral transformation of civil society must be _____ and based on persuasive leadership. A _____ definition of a sustainable lifestyle must be voluntarily accepted. Only _____ will the competitive urge to make more and

more money end. Money should become meaningful, moral and deeply
_____. If true wealth is found in a rich heart, no one will want
to touch money even with a barge pole.

moral and deeply _____. If true wealth

- a. Satisfy
- b. Satisfaction
- c. To satisfy
- d. Satisfying

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

- a. Possetion
- b. Possession
- c. Poessionion
- d. Posesion

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

Ram said, "I met her yesterday."

- a. Ram said that he met her yesterday.
- b. Ram said he meet her the day before.
- c. Ram said that he had met her the day before.

d. Ram met her the day before.

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

She opened the lock.

- a. The lock opened by her.
 - b. The lock was opened by her.
 - c. The lock is open by her.
 - d. The lock is to open by her.
-

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

All animals have

P: have memory

Q : animals do not

R : sensation but some

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

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

Drawn

- a. Tense
 - b. Thin
 - c. Relaxed
 - d. Drained
-

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

Benison

- a. Amen
 - b. Approval
 - c. Blessing
 - d. Execration
-

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

Contrite

- a. Determined
- b. Specific

- c. Devise
 - d. Regretful
-

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

Banal

- a. Original
 - b. Commonplace
 - c. Distinctive
 - d. Sharp
-

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

A youth is _____ who is not a child anymore and is yet to enter adulthood.

- a. Someone
 - b. No one
 - c. Anyone
 - d. Every
-

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

indicate it by selecting the appropriate option.

_____ is not well with her.

- a. This
- b. Always
- c. It
- d. All

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

In 2003, Delhi won the first 'Clean Cities International (1)/ Partner of the Year' award at its "bold efforts to curb (2)/ air pollution and support alternative fuel initiatives". (3)/ No error (4)

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

25. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'NoError'. (+2, -0.5)

My first (1)/ task has (2)/ to go for shopping. (3)/ No error (4)

- a. 1

b. 2

c. 3

d. 4

Prepp

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General Intelligence

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

Army : Soldier :: ? : ?

- a. Troupe : Artist
- b. Principal : School
- c. Tyre : Car
- d. Minister : Council

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

354 : 351 :: 478 : ?

- a. 481
- b. 447
- c. 475
- d. 477

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

PTY : DHM :: SQZ : ?

- a. IEO

- b. GEN
 - c. GFN
 - d. IFP
-

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

- a. Table Tennis - Indoor
 - b. Cricket - Outdoor
 - c. Football - Outdoor
 - d. Indoor - Chess
-

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

- a. 33 - 40
 - b. 31 - 38
 - c. 21 - 28
 - d. 23 - 28
-

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

- a. IQY

- b. CKT
 - c. EMU
 - d. HPX
-

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

1. Infect 2. Inferior 3. Indulge 4. Induce 5. Indirect

- a. 52143
 - b. 12453
 - c. 54312
 - d. 14532
-

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

23, 28, 34, 41, 49, ?

- a. 57
 - b. 59
 - c. 56
 - d. 58
-

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

AFMG, CHOI, EJQK, GLSM, ?

- a. HMVP
 - b. IOUH
 - c. MOUP
 - d. INUO
-

35. Rahul is taller than Richa but not shorter than Mita. Mita and Mukesh are of the same height. Rahul is shorter than Raju. Mukesh is shorter than Rahul. Amongst the students, who is the second tallest? (+2, -0.5)

- a. Mita
 - b. Rahul
 - c. Mukesh
 - d. Cannot be determined
-

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

Benevolent

- a. Been
 - b. Nevin
 - c. Lent
 - d. Ben
-

37. In a certain code language, "FLUTE" is written as "UOFGV". How is "LAMPS" written in that code language? (+2, -0.5)

- a. ONKPT
- b. OZNPS
- c. OSNPZ
- d. OZNBH

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

$$6 \times 20 \div 5 - 20 + 4 = ?$$

- a. 11
- b. 37
- c. 14
- d. 35

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

$$16 - 2 \div 40 + 4 \times 18 = 40$$

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

d. and +

40. If $1!9 = 20$, $9!5 = 28$ and $5!5 = 20$, then find the value of $7!3 = ?$ (+2, -0.5)

a. 20

b. 15

c. 22

d. 24

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

PQPQRRRQ, PQPQRRPQ, PQRRRQPQ, PQRRPQPQ, PRRQPQPQ, -----.

a. PQPQPQRR

b. RRPQPQPQ

c. PQPQRRRQ

d. PQPQRRPQ

42. A cross-country race route starts and goes 2 km East, then there is a turn (+2, -0.5)

towards North where the route goes on for 10 km, then there is a turn towards East where the route goes on for 7 km, then there is a right turn from where the route goes on 10 km to reach the end. What is the position of the end with respect to that start?

a. 5 km East

b. 9 km West

- c. 5 km West
 - d. 9 km East
-

43. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements. (+2, -0.5)

Statement I: All chains are ropes

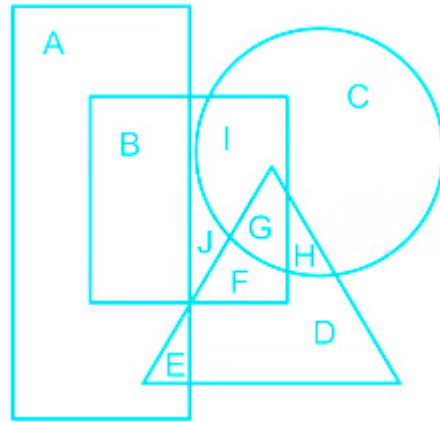
Statement II: Some links are chains

Conclusion I: Some ropes are links

Conclusion II: All links are ropes

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

44. In the following figure, rectangle represents Paramedics, circle represents Athletes, triangle represents Poets and square represents Gymnasts. Which set of letters represents Gymnasts who are both Athletes as well as Poets? (+2, -0.5)



- a. G
- b. GH
- c. IG
- d. IGH

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

HAT, MFY, RKD, WPI, ?

- a. YRK
- b. AWO
- c. AVM
- d. BUN

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

669, 660, 651, 642, 633, ?

- a. 622

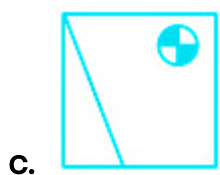
- b. 620
- c. 624
- d. 618

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

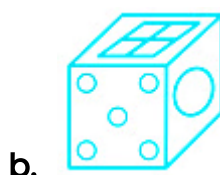
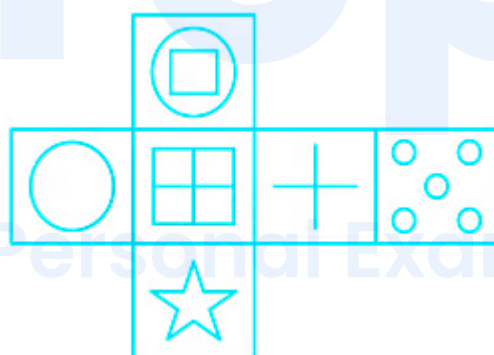
- a. (49, 45, 39)
- b. (73, 68, 63)
- c. (94, 89, 84)
- d. (66, 61, 56)

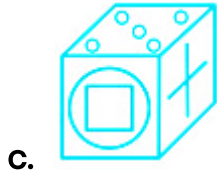
48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure? (+2, -0.5)





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





50. A word is represented by only set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'C' can be represented by 30, 43 etc and 'S' can be represented by 86, 97 etc. Similarly, you have to identify the set for the word 'VOLT'. (+2, -0.5)

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Matrix-I					
	0	1	2	3	4
0	A	F	B	I	M
1	F	C	J	C	B
2	B	G	F	F	F
3	C	L	E	J	B
4	K	A	M	C	E

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Matrix-II					
	5	6	7	8	9
5	V	U	X	Q	X
6	T	V	V	Q	X
7	W	Y	T	X	W
8	Z	S	N	Z	T
9	N	O	S	N	X

a. 67, 96, 31, 65

b. 20, 89, 14, 59

c. 43, 58, 31, 65

d. 30, 57, 30, 68

Quantitative Aptitude

51. Population of Patna city is 96,000, the decreasing rate of population is 800 per year. Population of Patliputra is 68,000, the increasing rate of population is 1200 per year. In how many years will the population of both places be equal? (+2, -0.5)

a. 10

b. 14

c. 18

d. 22

52. The cost price of 3 exam pads and 2 pencils is Rs. 96, 4 exam pads and 3 pencils cost Rs. 134. Find the total cost (in Rs.) of an exam pad and that of a pencil. (+2, -0.5)

a. 36

b. 38

c. 40

d. 42

53. Determine the value of $x^2 + y^2$ when $x^3 - y^3 = 54$, $x - y = 18$ and $xy = 2$ (+2, -0.5)

a. 0

b. 1

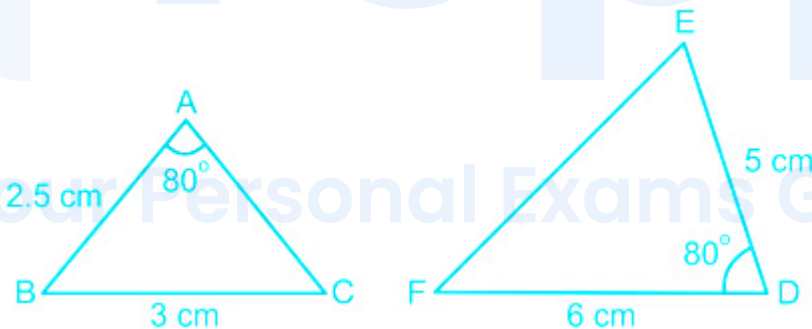
c. 2

d. 3

54. A zoo has few numbers of penguins and polar bears. The total number of heads of both of them is 60 and the total number of their feet is 160. How many polar bears are there in the zoo? (+2, -0.5)

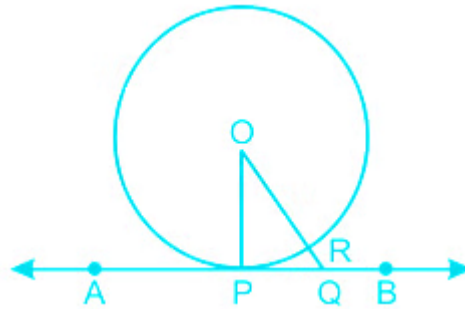
a. 20
b. 40
c. 60
d. 80

55. Consider the following figure shown below and choose which of the following equation is CORRECT about the similarity of both triangles? (+2, -0.5)



a. $\triangle ABC \sim \triangle DEF$
b. $\triangle ACB \sim \triangle DEF$
c. $\triangle ABC \sim \triangle FDE$
d. Both triangles are not similar.

56. Consider the following diagram as shown in figure in which AB is the tangent to the circle. Find the length of OQ (in cm) if the measure of largest chord of that circle is 6 cm and PQ is 4 cm. (+2, -0.5)



- a. 2
- b. 3
- c. 4
- d. 5
-
57. The income of P is 50% more than Q's income and the income of Q is 50% more than R's income. P's income is how much percentage more than R's income? (+2, -0.5)
- a. 225
- b. 150
- c. 125
- d. 100
-
58. What number should be added to each of 7, 17, 22 and 47 so that the resulting numbers will be in proportion in the given order? (+2, -0.5)

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

59. In what ratio must a mixture of 15% spirit strength be mixed with that of 25% spirit strength to get a mixture of 21% spirit strength? (+2, -0.5)

- a. 1 : 3
- b. 2 : 3
- c. 3 : 4
- d. 4 : 5

60. The average of three numbers is 58. The first number is $\frac{3}{4}$ of the third number. If the third number is 24 more than the second number, then what will be the difference between the first number and the second number? (+2, -0.5)

- a. 24
- b. 6
- c. 16
- d. 18

61. A sum of Rs. 2500 becomes Rs. 8100 in 2 years at a certain rate of compound interest. What will be the sum (in Rs.) after 4 years? (+2, -0.5)

- a. 29824
- b. 36284
- c. 41624
- d. 26244

62. Rahul sells two helmets at the rate of Rs. 1232 each. He gains 12% on one and loses 12% on the other. What will be the total loss (in Rs) in the whole transaction? (+2, -0.5)

- a. 54
- b. 36
- c. 18
- d. 72

63. The marked price of a table is 50% more than its cost price. What discount percentage should be offered by the shopkeeper to sell his table at no profit or no loss? (+2, -0.5)

- a. 66.66
- b. 33.33
- c. 40
- d. 25

64. What is the least number that should be added to the product $7 \times 8 \times 9 \times 10$ to make it a perfect square? (+2, -0.5)

- a. 144
- b. 1
- c. 289
- d. 3

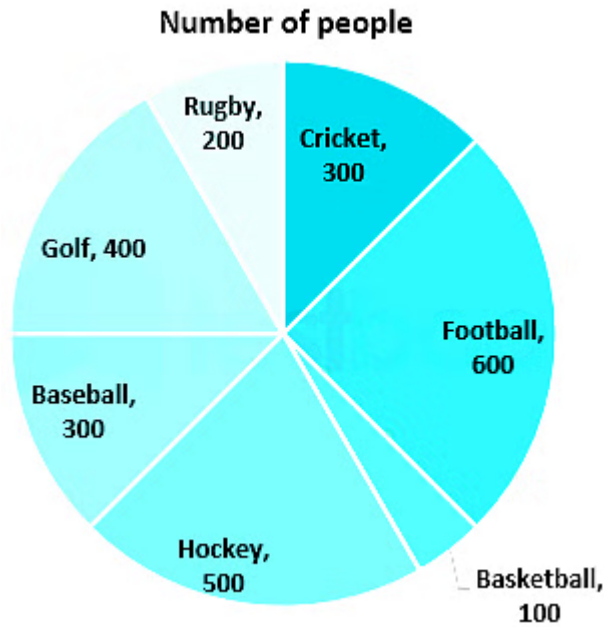
65. Working 9 hours a day, Manish can read a book in 16 days. How many hours a day should he work so as to finish the same work in 24 days? (+2, -0.5)

- a. 4
- b. 5
- c. 8
- d. 6

66. Two trains are running in opposite direction with the same speed. If the length of each train is 80 metres and they cross each other in 16 seconds, then what is the speed (in km/hr) of each train? (+2, -0.5)

- a. 12
- b. 18
- c. 24
- d. 30

67. **Direction:** The pie chart shows the results of an online survey which asked people about their favourite game. Study the diagram and answer the following questions. (+2, -0.5)

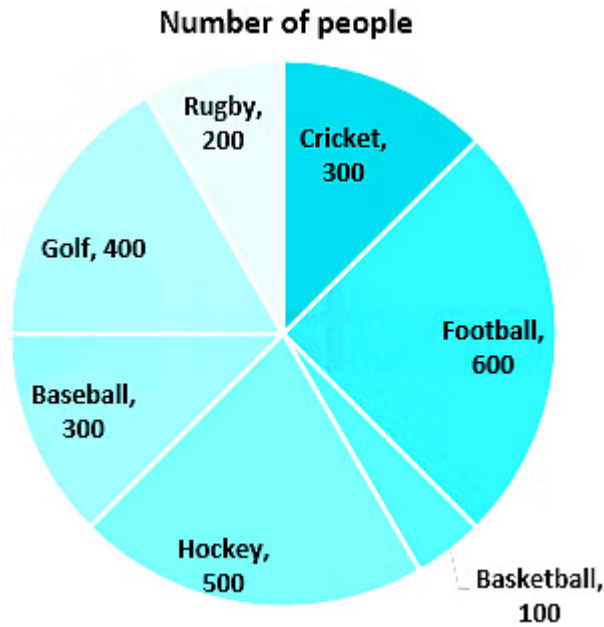


Which game is the favourite of most people surveyed?

- a. Basketball
- b. Football
- c. Hockey
- d. Baseball

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68. **Direction:** The pie chart shows the results of an online survey which asked people about their favourite game. Study the diagram and answer the following questions. (+2, -0.5)

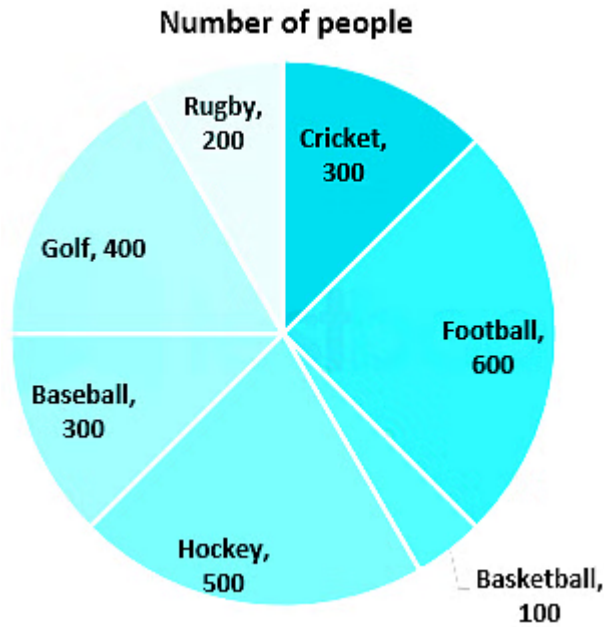


What is the total number of people who have responded to the survey?

- a. 2100
- b. 2200
- c. 2400
- d. 2500

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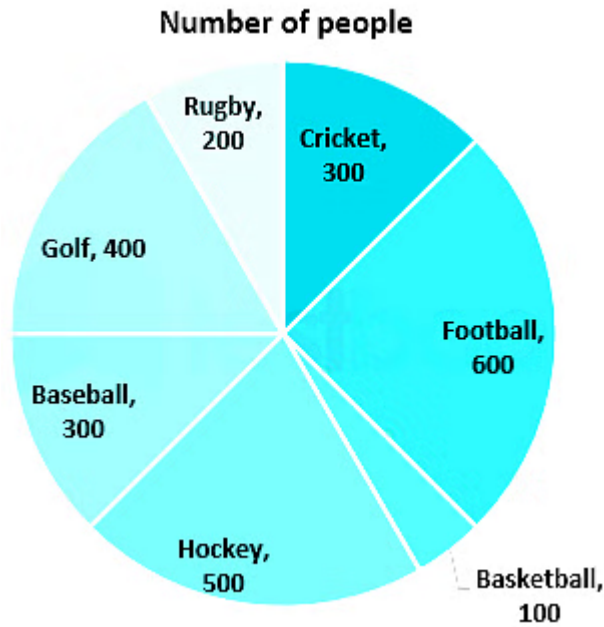
69. **Direction:** The pie chart shows the results of an online survey which asked people about their favourite game. Study the diagram and answer the following questions. (+2, -0.5)



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

- a. 30
- b. 60
- c. 75
- d. 45

70. **Direction:** The pie chart shows the results of an online survey which asked people about their favourite game. Study the diagram and answer the following questions. (+2, -0.5)



Respondents who say their favourite game is Cricket and those who say their favourite game is Hockey constitute what percent of the total respondents?

- a. 30%
- b. 33.33%
- c. 25%
- d. 40%

71. The perimeter and the breadth of a rectangle are 52 cm and 12 cm respectively. Find its area (in cm^2). (+2, -0.5)

- a. 84
- b. 336
- c. 168
- d. 252

72. Find the perimeter (in cm) of a semicircle of radius 7 cm. (+2, -0.5)

- a. 36
- b. 72
- c. 44
- d. 88

73. The curved surface area and the height of a right circular cylinder are 660 cm^2 and 10 cm respectively. Find its diameter (in cm). (+2, -0.5)

- a. 14
- b. 10.5
- c. 21
- d. 17.5

74. What is the value of $(\tan 30^\circ + \sqrt{3}/2)$? (+2, -0.5)

- a. $(4 + \sqrt{3})/2$
- b. $5/2\sqrt{3}$
- c. $(4 + \sqrt{3})/2\sqrt{3}$
- d. $(\sqrt{3} + 1)/\sqrt{3}$

75. In ΔXYZ measure of angle Y is 90° . If $\sec X = 17/8$, and $XY = 0.8\text{ cm}$, then what is the length (in cm) of side XZ? (+2, -0.5)

- a. 1.7
- b. 1.5
- c. 2
- d. 2.5

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General Awareness

76. Economic growth is usually coupled with _____. (+2, -0.5)
- a. Deflation
 - b. Inflation
 - c. Stagflation
 - d. Hyper inflation
-
77. The apex body for formulating plans and coordinating research work in agriculture and allied fields is _____. (+2, -0.5)
- a. Indian Council of Agricultural Research
 - b. Regional Rural Banks
 - c. State Trading Corporation
 - d. National Bank of Agriculture and Rural Development (NABARD)
-
78. After the decline of the Palas, which dynasty established its rule in Bengal? (+2, -0.5)
- a. Sena dynasty
 - b. Gaur dynasty
 - c. Ilyas dynasty
 - d. Ganesh dynasty
-
79. Which of the following were **NOT** related to the Congress Socialist Party? (+2, -0.5)

- a. Acharya Narendradev
 - b. Ram Manohar Lohia
 - c. Jai Prakash
 - d. Subhash Chandra Bose
-

80. Which of the following is called 'the safety valve of nature'? (+2, -0.5)

- a. Earthquake
 - b. Ozone gas
 - c. Volcano
 - d. Rivers
-

81. Which regional division the Himalayas is situated between the Kali and Tista rivers? (+2, -0.5)

- a. Punjab Himalaya
 - b. Nepal Himalaya
 - c. Assam Himalaya
 - d. Kumaon Himalaya
-

82. The folk dance "Bhog Bihu" is popular in _____. (+2, -0.5)

- a. Assam
- b. Bihar

- c. Odisha
 - d. Jharkhand
-

83. With which country China has signed a free trade agreement on December 8, 2017? (+2, -0.5)

- a. Pakistan
 - b. Nepal
 - c. Afghanistan
 - d. Maldives
-

84. Who authored the book Titled 'The Story of a Brief Marriage', which won the DSC Prize 2017 for South Asian Literature? (+2, -0.5)

- a. Anuk Arudpragasam
 - b. Justin Mallik
 - c. Premdass Nayyar
 - d. Aziz Sharif
-

85. The present Nepal Prime Minister K.P. Sharma Oli is belong to which political party? (+2, -0.5)

- a. Rastriya Janata Party Nepal
- b. Communist Party of Nepal (Unified)
- c. Nepali Congress

d. Rastriya Prajatantra Party

86. What is the maximum number of electrons that can be present in a shell represented by shell number 'n'? (+2, -0.5)

a. $2n$

b. $2n^2$

c. n

d. n^2

87. Which of the following is **NOT** an allotrope of carbon? (+2, -0.5)

a. Diamond

b. Graphite

c. C-60

d. Methane

88. The definition of Money Bill is given in which article of the Indian Constitution? (+2, -0.5)

a. Article 56

b. Article 110

c. Article 252

d. Article 256

89. In India, which kind of emergency can be proclaimed on the grounds of war or external aggression or armed rebellion? (+2, -0.5)

- a. National Emergency
- b. State Emergency
- c. Financial Emergency
- d. State and Financial Emergency both

90. Build-up of which acid in our muscles during sudden activity causes cramps? (+2, -0.5)

- a. Lactic acid
- b. Pyruvic acid
- c. Carbonic acid
- d. Oxalic acid

91. Who presented that all the plants and animals are composed of cells and that the cell is the basic unit of life? (+2, -0.5)

- a. M. Schleiden and T. Schwann
- b. Virchow
- c. J. E. Purkinje
- d. Leeuwenhoek

92. In December 2017, the Prime Minister of India approved the setting up of National Nutrition Mission (NNM) with an outlay of _____. (+2, -0.5)

- a. Rs. 8046.17 crore
- b. Rs. 9046.17 crore
- c. Rs. 7046.17 crore
- d. Rs. 10,000 crore 10,

93. In which country the world's largest automated container terminal opened in December 2017? (+2, -0.5)

- a. China
- b. Russia
- c. India
- d. Singapore

94. In January 2018, Indian Renewable Energy Development Agency (IREDA) raised \$ 300 million via _____ at London Stock Exchange. (+2, -0.5)

- a. Yellow Masala Bonds
- b. Green Masala Bonds
- c. Red Masala Bonds
- d. White Masala Bonds

95. On 2 January 2018, Parliament passed NABARD (Amendment) Bill, 2017 which provides that Union Government alone must hold at least how much capital share of NABARD? (+2, -0.5)
- a. 48%
 - b. 70%
 - c. 51%
 - d. 60%
-
96. A bullet of mass 10 g is fired with a velocity of 20 m/s from a gun of mass 2 kg. Find the recoil velocity (in m/s) of the gun. (+2, -0.5)
- a. 1
 - b. 0.2
 - c. 0.1
 - d. 2
-
97. The product of force and the time for which the force acts on a body is equal to the change in _____ of the body. (+2, -0.5)
- a. Acceleration
 - b. Torque
 - c. Momentum
 - d. Velocity
-

98. Earthquake tremors are caused by the disturbance deep down inside the uppermost layer of the earth called the _____. **(+2, -0.5)**

- a. Core
- b. Kernel
- c. Pith
- d. Crust

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

- A) Fan Zhendong won the Tennis 2017 Cincinnati Masters Men's Singles.
- B) In 2018 IPL auctions, Mumbai Indians retained Sunil Narine.
- C) Australia won the 2016–17 Women's FIH Hockey World League Final.

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

100. Computers and communication technologies affect our lives in ways that include _____ and in the way we learn and shape the course of our learning according to our own interests. **(+2, -0.5)**

- a. Societal
- b. Technological

c. Educational

d. Personal

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Answers

1. Answer: b

Explanation:

The correct option is **Flounder** .

★ Key Points

Reading the given sentence we find that:

- The word **flounder** is correctly spelt in the given question.
- **Flounder** : To struggle to move or to obtain footing; thrash about wildly.
- **Example** : The poor horse was **floundering** in the mudb.

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

2. Answer: d

Explanation:

The correct answer is **ACB** .

★ Key Points

Reading the above question we find that:

- The first fixed part ends with an adjective **small** .
- Therefore it should be followed by a **noun** .
- Out of all the given options, only **A** starts with a **noun** .
- In option **1 ABC** we find that it ends with **C** which has a possessive pronoun ' **my** ' in the end.
- Since a sentence cannot end with a possessive pronoun **option 1 ABC** can be eliminated.
- This leaves us with the final option starting with **A** i.e **ACB** .

- Therefore the correct answer is **ACB** .

The correct sentence will be: *I say a small prayer whenever I ring the doorbell to my next assignment.*

3. Answer: a

Explanation:

The correct answer is **Cleaned** .

★ Key Points

Reading the given sentence we find that:

- The verb **kept** is used in the first part of the sentence.
- Therefore the sentence is in the simple past tense .
- Thus the tense of the other verbs must align with the tense of the sentence.
- For the verb **clean** , its **simple past tense** is **cleaned** .

Therefore the correct answer is **Cleaned** .

The correct sentence will be: *We kept aside our clothes, **cleaned** our hiking boots and made sure we had our thick woollen socks.*

4. Answer: b

Explanation:

The correct answer is **Were replaced** .

★ Key Points

Reading the sentence we find that:

- The verb "**replaced**" shows the sentence is in the simple past tense.

- So, **past tense** should be used further as well. Therefore, option 4 is wrong.
- Also, there are two subjects- the steam engines and the old first-class coaches.
- That means, plural subject, so according to the **sub-verb agreement**, the plural verb should be used. Thus, option 1 is incorrect.
- The given sentence is in the passive voice form in the **simple past tense**.
- Thus, the helping verb "**were**" is used with V3, i.e. **replaced**. So, option 2 i.e. "**were replaced**" is the correct answer.

Therefore the correct answer is **Were replaced**.

5. Answer: d

Explanation:

The correct answer is **Reminiscence**

★ Key Points

Let's look at the meaning of the options given below:

- **Antithetic** -perfect for describing something that clashes with or cancels something else out.
- **Disparate** - essentially different in kind; not able to be compared; unlike; unlike.
- **Conjecture** - an opinion or conclusion formed on the basis of incomplete information.
- **Reminiscence** -a characteristic of one thing that is suggestive of another; a story told about a past event remembered by the narrator.

Clearly, option 4 i.e. **Reminiscence** gives the best substitute for given sentence.

6. Answer: b

Explanation:

The correct answer is **Churlish**.

★ Key Points

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

- **Affable** - friendly, good-natured, or easy to talk to; cordial.
- **Churlish** - rude in a mean-spirited and surly way.
- **Cordial** - friendly, good and easy to talk to.
- **Genteel** - characterized by exaggerated or affected politeness, refinement, or respectability.

Thus from the the given meanings we can conclude that the correct answer is **Churlish** .

7. Answer: c

Explanation:

The correct answer is **A person or thing that one is extremely pleased or relieved to see.**

★ Key Points

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

- **A sight for sore eyes** : A person or a thing that one is relieved to see.
- **Example** : *The enigmatic professor's entry was a sight for the sore eyes.*

Therefore the correct answer is **A person or thing that one is extremely pleased or relieved to see** .

8. Answer: c

Explanation:

The correct answer is **A device not working properly or at all** .

★ Key Points

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

- **Be out of order** : Not working properly; not in the correct sequence.

Therefore from the given meaning, we find that the correct answer is **A device not working properly or at all** .

9. Answer: c

Explanation:

The correct answer is **In** .

★ Key Points

Reading the passage we find that:

- The passage explains on morals of not taking harsh steps to end corruption.
- It also explains that money should not be given much priority.
- Now, the blank is followed by " **order** ".
- So, the apt word should be **in**, that is **in order**.
- It means in the correct condition for operation or use.
- So, the context explains we cannot create harsh laws to end the operation of corruption.

Thus, the correct answer is **In** .

10. Answer: b

Explanation:

The correct answer is **Natural** .

★ Key Points

Reading the given sentence we find that:

Here we need an **adjective** that can give more meaning to the **noun** society.

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

- **Nature** : Is a **noun** that means the phenomena of the physical world.
- **Natural** : An **adjective** that means existing in or derived from nature.
- **Naturally** : An adverb that means without special intervention.
- **Naturism** : Is a noun that means the style and theory of representation.

★ Important Points

Thus from the given meanings, we find that:

- Only the word **natural** is an **adjective** and only it can be used with the noun society.
- Furthermore, the meaning of the word fits in contextually with the given sentence.

Therefore the correct answer is **Natural** .

11. Answer: d

Explanation:

The correct answer is **Clear** .

★ Key Points

Reading the given sentence we find that:

- An adjective should be used in the blank to give more meaning to the noun **definition** .
- Out of all the given options, only **clear** is an adjective.

Therefore the correct answer is **Clear** .

★ Additional Information

- **Clearly** is an adverb.
- **Clarity** is a noun that means to be coherent.
- **Clarification** : is a noun that is the art of making a statement or less confusing and more comprehensible.

12. Answer: d

Explanation:

The correct answer is **Then** .

★ Key Points

Reading the given sentence we find that:

- An adverb that means ' **after that or next**' should come here.
- Here we are talking about something that is coming after something.
- Therefore the correct adverb to be used here is **Then** .
- **Then** : An adverb which means **after that; next; afterwards** .

Thus the correct answer is **Then** .

13. Answer: d

Explanation:

The correct answer is **Satisfying** .

★ Key Points

Reading the given sentence we find that:

- The word **deeply** is an **adverb** and an adverb always modifies a **verb** or an **adjective** .

- In the given options we have a verb i.e **Satisfy** and an adjective i.e **Satisfying** .
- Reading the whole sentence we find that:
- There is **no particular action** is taking place in the given sentence.
- Instead, the sentence is talking about the **qualities** that **money** should have.
- Thus we need an **adjective** here instead of a verb.

Therefore the correct answer is **Satisfying** which is an adjective.

14. Answer: b

Explanation:

The correct answer is **Possession** .

★ Key Points

Reading the given question we find that:

- Here, the word "**possession**" is correctly spelt.
- **Possession** :the state of having, owning, or controlling something.
- **Example** : S he had taken possession of the house.

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

15. Answer: c

Explanation:

Correct option – 3

Here, direct speech is given. So, we change it into indirect speech. The sentence in inverted commas is given in simple past tense. So, it changes into past perfect tense in indirect. Thus, **option 3** is the correct answer.

16. Answer: b

Explanation:

Correct option – 2

Here, active voice is given. So, we change it into passive voice. The tense used is simple past tense. So, following pattern is used :-

Obj + was/were + V3 +by +Sub.

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

17. Answer: c

Explanation:

The correct answer is **RQP**.

★ Key Points

Reading the given question we find that:

- Clearly, the sentence does not end with a helping verb "**do not**" and a **determiner "some"**, they give incomplete meaning.
- Keeping this in mind we can eliminate **PRQ** and **PQR** i.e option **1** and **2**.
- **QRP** i.e option **1** is incorrect because **Q** should be followed by the **main verb**, and not a **noun**.
- In the given question the word **sensation** is a noun.

Therefore the correct sequence will be **RQP**.

The correct sentence is: All animals have **sensation** but some **animals** do not **have** memory.

18. Answer: c

Explanation:

The correct answer is **Relaxed** .

★ Key Points

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

- **Drawn** : Looking strained from illness, exhaustion, anxiety or pain.
- **Relaxed** : Free from tension and anxiety.

Thus from the given meanings, we find that the correct answer is **Relaxed** .

19. Answer: d

Explanation:

The correct answer is **Execration** .

★ Key Points

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

- **Benison** : A blessing .
- **Execration** : The act of cursing or denouncing someone.

Thus from the given meanings, it is clear that both the words express the opposite meaning.

Therefore the correct answer is **Execration** .

★ Additional Information

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

- **Amen** : An utterance at the end of a prayer or hymn.
 - **Approval** : The act of approving something.
 - **Blessing** : A gift from the heavens.
-

20. Answer: d

Explanation:

The correct answer is **Regretful** .

★ Key Points

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

- **Contrite** : feeling or expressing remorse at the recognition that one has done wrong; regretful; penitent .
- **Regretful** : feeling or showing regret.

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

Therefore the correct answer is **Regretful** .

★ Additional Information

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

- **Determined** : Having reached a decision.
 - **Specific** : Cleverly defined or identified.
 - **Devise** : Plan or invent by careful thought.
-

21. Answer: b

Explanation:

The correct answer is **Commonplace** .

★ Key Points

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

- **Banal** : Common; predictable; conventional.
- **Commonplace** : Something that is conventional and common.

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

Therefore the correct answer is **Commonplace** .

★ Additional Information

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

- **Original** : Present or existing from the beginning.
- **Distinctive** : Characteristic of one person or thing.
- **Sharp** : Having an edge or point that is able to cut.

22. Answer: a

Explanation:

Correct option - 1

Here, a positive word should be used because "not" is already given. Thus, option 2 is incorrect. And, "anyone" is used for a question or to produce a negative meaning. But, the phrase is complete till the blank, after that another phrase starts. So, option 3 is eliminated. And, 'every' is determiner that is used to point out noun but now relative pronoun "who". So, option 4 is wrong. Thus, **option 1** is the correct answer.

23. Answer: d

Explanation:

The correct answer is **All** .

★ Key Points

Reading the above sentence we find that:

- **All is well** is a general expression in the English Language which means everything is fine.
- Thus from the given expression, we can come to the conclusion that the correct answer here should be **All** .
- Using **all** gives proper **contextual meaning** to the sentence that **everything is not fine with her**.

Thus, the correct answer is **All** .

24. Answer: b

Explanation:

The correct answer is **2**.

★ Key Points

Reading the given sentence we find that:

- The error lies in the **second** part of the sentence.
- 'Award at its bold efforts' is wrong as the preposition **for** is used with **Awards** .
- Awards are given **for** an achievement.
- Thus, the preposition **for** should be used here in place of **at** .

Thus we can conclude that the error lies in **part 2** of the sentence.

25. Answer: b

Explanation:

Correct option – 2

Here, action is done by the subject "I", not the "task". It is an action that has to be done. So, it is 'I' who goes to shopping. So, replace **has** with **is**. Thus, option 2 is the correct answer.

26. Answer: a

Explanation:

An Army of Soldiers is a collective noun.

Similarly, a Troupe of Artist is also a collective noun.

Hence, answer is 'Troupe : Artist'.

27. Answer: c

Explanation:

The pattern/logic/rule followed here is:

$$354 - 3 = 351$$

Similarly,

$$478 - 3 = 475$$

Hence, answer is '475'.

28. Answer: b

Explanation:

The pattern/logic/rule followed here is:

$$P - 12 = D$$

$$T - 12 = H$$

$$Y - 12 = M$$

Similarly,

$$S - 12 = G$$

$$Q - 12 = E$$

$$Z - 12 = N$$

Hence, answer is 'GEN'.

29. Answer: d

Explanation:

The pattern followed here is (Game - type of game INDOOR/OUTDOOR)

'Indoor - Chess' does not follow the above pattern.

Hence, 'Indoor - Chess' is the odd one out.

30. Answer: d

Explanation:

Here the pattern of relation followed is (Number - Number + 7)

All except '23 - 28' follows the above pattern of relation.

Hence, '23 - 28' is the odd one out

31. Answer: b

Explanation:

The pattern/logic/rule followed here is:

1) IQY $\rightarrow$ I + 8 = Q; Q + 8 = Y

2) CKT $\rightarrow$ C + 8 = K; K + 9 = T

3) EMU $\rightarrow$ E + 8 = M; M + 8 = U

4) HPX $\rightarrow$ H + 8 = P; P + 8 = X

Clearly, 'CKT' does not follow the same pattern/logic/rule as other three options.

Hence, 'CKT' is the odd one out.

32. Answer: c

Explanation:

5. Indirect

4. Induce

3. Indulge

1. Infect

2. Inferior

Hence, answer is '54312'.

33. Answer: d

Explanation:

The logic/rule followed here is:

$$23 + 5 = 28; 28 + 6 = 34; 34 + 7 = 41; 41 + 8 = 49; 49 + 9 = 58$$

Hence, answer is '58'.

34. Answer: d

Explanation:

The logic/rule followed here is:

$$A + 2 = C; C + 2 = E; E + 2 = G; G + 2 = I$$

$$F + 2 = H; H + 2 = J; J + 2 = L; L + 2 = N$$

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

$$G + 2 = I; I + 2 = K; K + 2 = M; M + 2 = O$$

Hence, answer is 'INUO'.

35. Answer: b

Explanation:

1) Rahul is taller than Richa but not shorter than Mita.

Rahul > Richa and

Rahul > Mita

2) Mita and Mukesh are of same height.

Mita = Mukesh

3) Rahul is shorter than Raju.

Raju > Rahul

From 1, 2 and 3 – we get:

CASE 1: Raju > Rahul > Richa > Mita = Mukesh

CASE 2: Raju > Rahul > Mita = Mukesh > Richa

In both the case Rahul is the second tallest person.

Hence, Rahul is the second tallest person.

36. Answer: b

Explanation:

We have to checked each Option:

Option (1): Been (Can be formed using the letters of "Benevolent").

Option (2): Nevin (Cannot be formed using 'Benevolent' because **there is no 'l' in it.**)

Option (3): Lent (Can be f ormed using the letters of "Benevolent")

Option (4): Ben (Can be f ormed using the letters of "Benevolent")

Hence, the correct answer is "**Nevin**".

37. Answer: d

Explanation:

The logic/rule followed here is:

The alphabet is replaced by the alphabet which have same positional value in reverse alphabetical series.

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

F → U

L → O

U → F

T → G

E → V

Similarly,

L → O

A → Z

M → N

P → K

S → H

Hence, answer is 'OZ NKH'.

38. Answer: a

Explanation:

Symbol	+	-	×	÷
Meaning	÷	×	-	+

Given equation: $6 \times 20 \div 5 - 20 + 4 = ?$

On replacing the symbol:

$$6 - 20 + 5 \times 20 \div 4 = ?$$

$$\rightarrow 6 - 20 + 5 \times 5$$

$$\rightarrow 6 - 20 + 25$$

$$\rightarrow 31 - 20$$

$$\rightarrow 11$$

Hence, answer is '11'.

39. Answer: a

Explanation:

Given equation:

$$16 - 2 \div 40 + 4 \times 18 = 40$$

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

$$\text{L.H.S of equation: } 16 \div 2 - 40 + 4 \times 18 = 40$$

$$\rightarrow 16 \div 2 - 40 + 4 \times 18$$

$$\rightarrow 8 - 40 + 72$$

$$\rightarrow 80 - 40$$

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

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

40. Answer: a

Explanation:

The logic/rule followed here is:

$$1!9 = 20 \rightarrow (1 + 9) \times 2 = 20$$

$$9!5 = 28 \rightarrow (9 + 5) \times 2 = 28$$

$$5!5 = 20 \rightarrow (5 + 5) \times 2 = 20$$

$$7!3 \rightarrow (7 + 3) \times 2 = 20$$

Hence, answer is '20'.

41. Answer: b

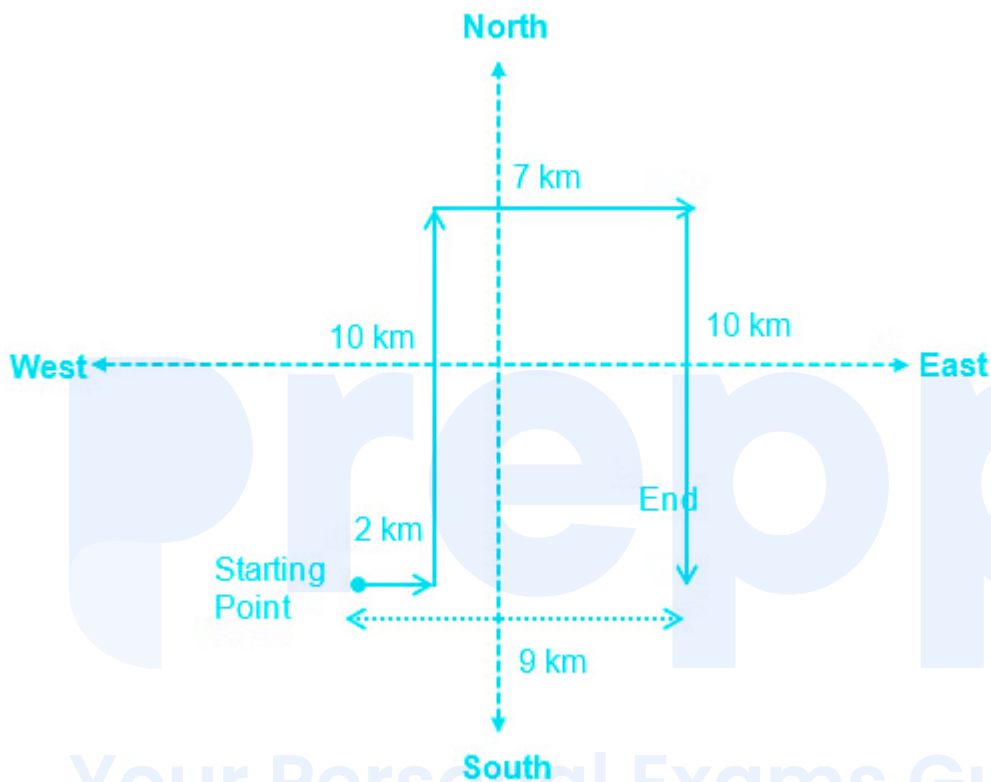
Explanation:

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

Hence, answer is 'RRPQPQPQ'.

42. Answer: d

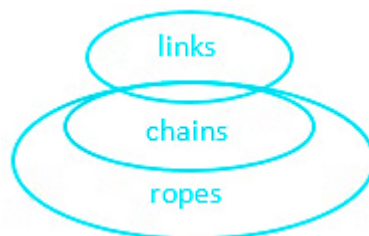
Explanation:



Hence, the end position is 9 km to the East of the starting position.

43. Answer: a

Explanation:



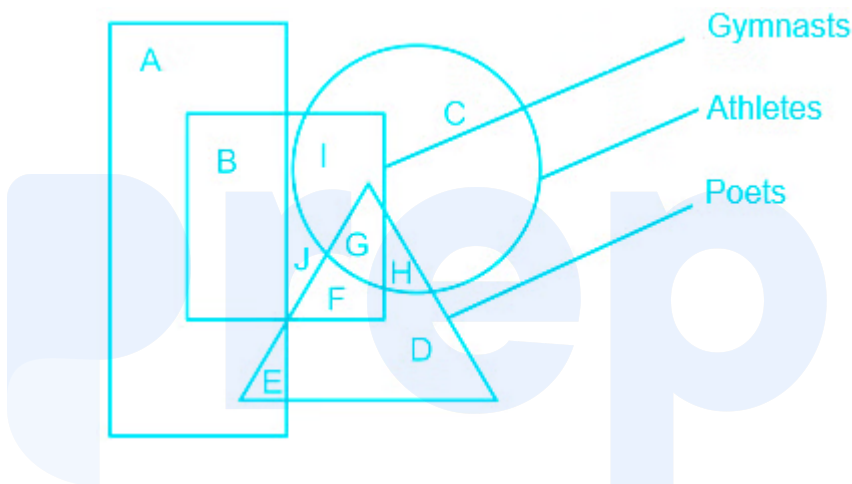
Conclusion I: Some ropes are links $\rightarrow$ True (As, All chains are ropes and Some links are chains)

Conclusion II: All links are ropes $\rightarrow$ False

Hence, only conclusion I follows.

44. Answer: a

Explanation:



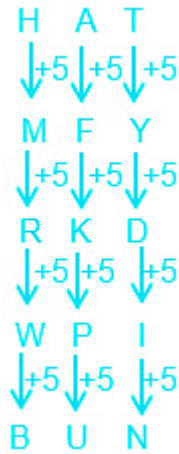
Hence, G represents Gymnasts who are both Athletes as well as Poets.

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45. Answer: d

Explanation:

The logic/rule/relation followed here is:



Hence, answer is 'BUN'.

46. Answer: c

Explanation:

The logic/rule/relation followed here is:

$$669 - 9 = 660;$$

$$660 - 9 = 651;$$

$$651 - 9 = 642;$$

$$642 - 9 = 633;$$

$$633 - 9 = 624$$

Hence, answer is '624'.

47. Answer: a

Explanation:

The logic/rule/relation followed here is:

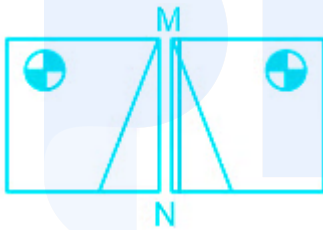
- 1) $(49, 45, 39) \rightarrow 49 - 4 = 45; 45 - 6 = 39$
- 2) $(73, 68, 63) \rightarrow 73 - 5 = 68; 68 - 5 = 63$
- 3) $(94, 89, 84) \rightarrow 94 - 5 = 89; 89 - 5 = 84$
- 4) $(66, 61, 56) \rightarrow 66 - 5 = 61; 61 - 5 = 56$

Clearly, $(49, 45, 39)$ does not follow the same pattern as others.

Hence, $(49, 45, 39)$ is the odd one out.

48. Answer: c

Explanation:

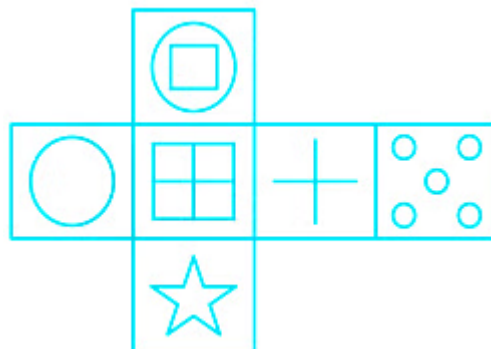


Hence, answer is option '3'.

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49. Answer: b

Explanation:



From the figure we can conclude:

- 1) The face of dice with star will be opposite to the side with circle and square.
- 2) The side with plus will be opposite the side with circle.
- 3) The side with four squares will be opposite to the side with five small circles.



Here in the figure above side with four squares and the side with five small circles are adjacent to each other. Hence, it cannot be made based on the unfolded cube in the question figure.

50. Answer: a

Explanation:

- 1) 67, 96, 31, 65 → V, O, L, T
- 2) 20, 89, 14, 59 → B, T, B, X
- 3) 43, 58, 31, 65 → C, Q, L, T
- 4) 30, 57, 30, 68 → C, X, C, Q

Hence, answer is '67, 96, 31, 65'.

51. Answer: b

Explanation:

Let the population of both places will be equal in x years

So, according to the question,

$$96000 - 800x = 68000 + 1200x$$

$$\Rightarrow 2,000x = 28,000$$

$$\therefore x = 14 \text{ years}$$

52. Answer: b

Explanation:

Calculation:

Let the cost of one exam pad be x

And the cost of one pencil be y

According to question

$$\Rightarrow 3x + 2y = 96 \quad \text{-----(1)}$$

$$\Rightarrow 4x + 3y = 134 \quad \text{-----(2)}$$

Subtract equation (1) from equation (2) we get

$$\Rightarrow x + y = 38$$

So, the total cost of an exam pad and a pencil is Rs. 38.

53. Answer: b

Explanation:

$$\text{Given, } x^3 - y^3 = 54, x - y = 18 \text{ \& } xy = 2$$

$$\text{As we know, } x^3 - y^3 = (x - y)(x^2 + y^2 + xy)$$

$$\Rightarrow 54 = 18 \times (x^2 + y^2 + 2)$$

$$\Rightarrow 3 = x^2 + y^2 + 2$$

$$\therefore x^2 + y^2 = 1$$

54. Answer: a

Explanation:

Let the number of polar bears = x

So, number of penguin be = $60 - x$

According to the question

$$\Rightarrow 4x + 2(60 - x) = 160$$

$$\Rightarrow 4x + 120 - 2x = 160$$

$$\Rightarrow 2x = 40$$

$$\Rightarrow x = 20$$

$\therefore$ there are 20 polar bears in the zoo.

55. Answer: d

Explanation:

We know, two triangle are similar, if their corresponding angles are equal and their corresponding sides are in the same ratio or proportion.

Given, $\angle A = \angle D = 80$,

But, $AB/AC \neq DE/DF$

So, we can say both triangles are not similar.



Important Point

The **SAS** similarity criterion refers that If two sides of one triangle are respectively proportional to two corresponding sides of another, and if the included angles are equal, then the two triangles are similar



Mistake Point

When two pairs of sides are proportional and one pair of angles are congruent, the angles are not the included angles. This is **SSA**, which is not a **similarity** criterion.

56. Answer: d

Explanation:

We know, diameter is the largest chord of the circle

If diameter = 6,

So, radius (r) = 3

As we know, OP AB (tangent to the circle)

So, in right angled $\triangle OPQ$

$\Rightarrow OP = 3$ (radius of the circle)

$\Rightarrow PQ = 4$

By Pythagoras theorem

$\Rightarrow (OQ)^2 = (OP)^2 + (PQ)^2$

$\Rightarrow (OQ)^2 = 3^2 + 4^2$

$\therefore OQ = 5 \text{ cm}$

57. Answer: c

Explanation:

Let income of the R be 100

Income of the Q = $100 \times 150/100 = 150$

Income of the R = $150 \times 150/100 = 225$

So, Income of P is more than R's income by = $(225 - 100)/100 \times 100 = 125\%$

58. Answer: b

Explanation:

Let us add x to each of the four numbers to make the resulting numbers in proportion

$$(7 + x)/(17 + x) = (22 + x)/(47 + x)$$

$$\Rightarrow (7 + x)(47 + x) = (22 + x)(17 + x)$$

$$\Rightarrow 329 + 7x + 47x + x^2 = 374 + 22x + 17x + x^2$$

$$\Rightarrow 15x = 45$$

$$\Rightarrow x = 3$$

59. Answer: b

Explanation:

Given:

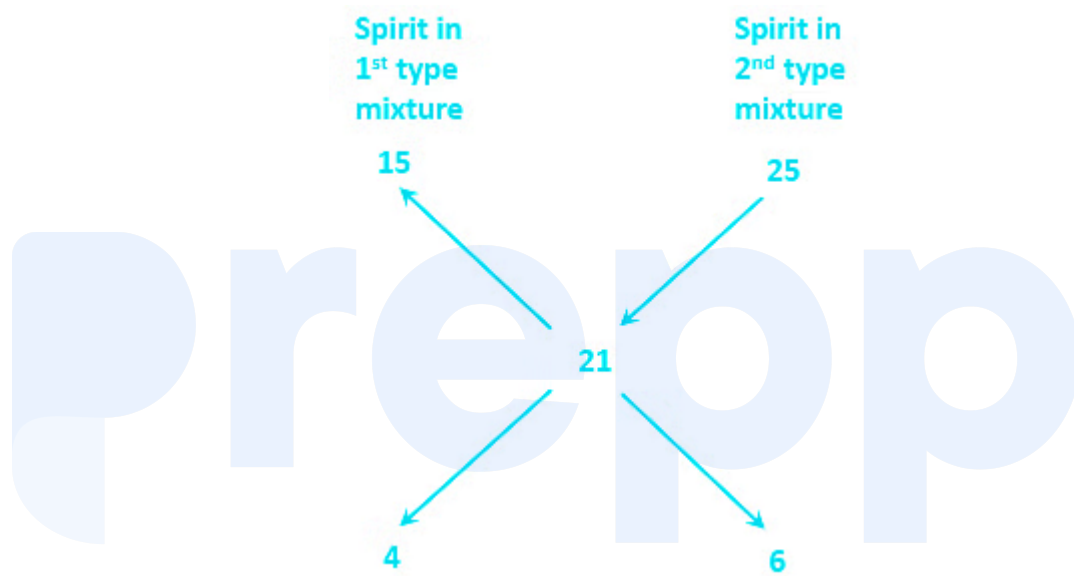
a mixture of 15% spirit strength be mixed with that of 25% spirit strength to get a mixture of 21% spirit strength

Concept used:

Method of Alligation

Calculation:

Using alligation method



$\therefore$ required ratio = 4 : 6 = 2 : 3

60. **Answer: b**

Explanation:

The average of three numbers = 58

So, the sum of three numbers = $58 \times 3 = 174$

Let third number be $4x$

So, the first number = $3x$

So, the second number = $4x - 24$

According to the question

$$\Rightarrow 3x + 4x - 24 + 4x = 174$$

$$\Rightarrow 11x = 198$$

$$\Rightarrow x = 18$$

So, the first number = $3 \times 18 = 54$

The second number = $4 \times 18 - 24 = 48$

$\therefore$ The difference between the first number and the second number = $54 - 48 = 6$

61. Answer: d

Explanation:

Principal = 2500 & Amount = 8100

As we know, $A = P \left(1 + \frac{r}{100}\right)^2$

$$\Rightarrow \left(1 + \frac{r}{100}\right)^2 = \frac{81}{25}$$

$$\Rightarrow 1 + \frac{r}{100} = \frac{9}{5}$$

$$\Rightarrow r = 80\%$$

Amount after 4 years

$$A = 2500 \left(1 + \frac{80}{100}\right)^4$$

$$\Rightarrow A = 2500 \times \frac{9}{5} \times \frac{9}{5} \times \frac{9}{5} \times \frac{9}{5}$$

$$\therefore A = 26244$$

62. Answer: b

Explanation:

SP of one helmet = 1232

SP of two helmets = $1232 \times 2 = 2464$

CP of first helmet = $1232 \times 100/112 = 1100$

CP of second helmet = $1232 \times 100/88 = 1400$

Total CP of two helmets = $1100 + 1400 = 2500$

As we know, loss = CP - SP

$\therefore$ Loss = $2500 - 2464 = 36$

63. Answer: b

Explanation:

Let CP of the table be 100

MP of the table = $100 \times 150/100 = 150$

If no loss & no profit, then

$\therefore$ Discount % = $(150 - 100)/150 \times 100 = 33.33\%$

64. Answer: b

Explanation:

To make perfect square

$$\Rightarrow 7 \times 8 \times 9 \times 10$$

$$\Rightarrow 7 \times 2 \times 2 \times 2 \times 3 \times 3 \times 2 \times 5 = 5040$$

$\Rightarrow$ 5040 is not a perfect square and we know 5041 is a perfect square.

So, we add 1 in 5040 to make perfect square.

65. Answer: d

Explanation:

$$\text{As we know, } t_1 \times d_1 = t_2 \times d_2$$

$$\text{So, } t_1 = 9 \text{ hr, } d_1 = 16 \text{ days, \& } d_2 = 24 \text{ days}$$

$$\Rightarrow 9 \times 16 = t_2 \times 24$$

$$\therefore t_2 = 6 \text{ hr}$$

66. Answer: b

Explanation:

$$\text{Given, speed of first train } (S_1) = \text{speed of second train } (S_2)$$

$$\text{Length of first train} = \text{Length of second train} = 80 \text{ m}$$

$$\text{Time} = 16 \text{ sec}$$

If opposite direction, then

$$\text{Total speed} = S_1 + S_2$$

$$\text{As we know, speed} = \text{distance/time}$$

$$\text{Total speed} = (80 + 80)/16 \text{ m/sec}$$

$$\Rightarrow S_1 + S_2 = 10$$

$$\Rightarrow 2S_1 = 10$$

$$\Rightarrow S_1 = 5 \text{ m/sec}$$

$$\Rightarrow S_1 = 5 \times 18/5 = 18 \text{ km/hr}$$

Hence, speed of the train is 18 km/hr

67. Answer: b

Explanation:

Football game is the favourite of most people surveyed (600).

68. Answer: c

Explanation:

Total number of people who have responded to the survey = $300 + 600 + 100 + 500 + 300 + 400 + 200 = 2400$

69. Answer: d

Explanation:

Total number of people who have responded to the survey = 2400

We know, total sector 2400 represents = 360°

So, Baseball sector 300 represents = $360^\circ/2400 \times 300 = 45^\circ$

70. Answer: b

Explanation:

We know total respondent = 2400

Respondents who say their favourite game is cricket and Hockey = $300 + 500 = 800$

$\therefore$ Required percentage = $800/2400 \times 100 = 33.33\%$

71. Answer: c

Explanation:

We know, perimeter of the rectangle = $2 \times (\text{Length} + \text{Breadth})$

Area of the rectangle = $\text{Length} \times \text{Breadth}$

Given, perimeter of the rectangle = 52 & Breadth = 12

$$\Rightarrow 2 \times (\text{Length} + \text{Breadth}) = 52$$

$$\Rightarrow \text{Length} + 12 = 26$$

$$\Rightarrow \text{Length} = 14$$

$$\therefore \text{Area of the rectangle} = 12 \times 14 = 168 \text{ cm}^2$$

72. Answer: a

Explanation:

We know, perimeter of a semicircle = $\pi r + 2r$

Given, radius = 7 cm

So, perimeter of a semicircle = $22/7 \times 7 + 2 \times 7 = 36$ cm

73. Answer: c

Explanation:

Given, curved surface area of cylinder = 660 cm^2

Height of cylinder = 10 cm

We know, curved surface area of cylinder = $2\pi rh$

So, $2\pi rh = 660$

$\Rightarrow 2 \times 22/7 \times r \times 10 = 660$

$\Rightarrow r = 21/2$

So, diameter of cylinder = $2 \times 21/2 = 21$ cm

74. Answer: b

Explanation:

$\therefore (\tan 30^\circ + \sqrt{3}/2) = 1/\sqrt{3} + \sqrt{3}/2 = (2 + 3)/2\sqrt{3} = 5/2\sqrt{3}$

75. Answer: a

Explanation:

Given, $\angle Y = 90^\circ$, $\sec X = 17/8$

$\Rightarrow \sec x = \text{hypotenuse}/\text{base} = XZ/XY = 17/8$

If $XY = 0.8$

$$\Rightarrow 8 \text{ unit} = 0.8$$

$$\Rightarrow 1 \text{ unit} = 0.1$$

$$\Rightarrow (XZ) = 17 \text{ unit} = 1.7$$

Therefore length of XZ is 1.7 cm

76. Answer: b

Explanation:

- Inflation is a good indicator of economic growth because whenever there is economic growth, the wealth of the people of the country also increases.
- Due to increase in wealth, the spending increases. As the spending increases, the demand increases leading to increase in price causing inflation.

Term	Meaning
Deflation	Deflation occurs when the inflation rate falls below 0% (a negative inflation rate)
Stagflation	situation where the inflation rate is high, the economic growth rate slows down, and unemployment remains steadily high
Hyper inflation	Very high inflation

77. Answer: a

Explanation:

The correct answer is Indian Council of Agricultural Research.

★ Key Points

- The Indian Council of Agricultural Research is responsible for formulating plans and conducting research work in agriculture and its allied fields.
- It reports to the Department of Agricultural Research and Education, Ministry of Agriculture.
- The Union Minister of Agriculture serves as its president.
- It is the largest network of agricultural research and education institutes in the world.

78. Answer: a

Explanation:

- The Sena dynasty took over after the Pala dynasty saw its decline.
- It was led by King Vijaysena. The Sena dynasty ruled over Bengal in the 11th and 12th century and they were orthodox Hindus.

79. Answer: d

Explanation:

- Subhash Chandra Bose was a member of the Indian National Congress, he was elected as the president of the party in 1938.
- In June of 1939, he also established the All India Forward Bloc, a left-wing faction within Congress.

Congress Socialist Party	Socialist caucus within the Indian National Congress
Founded on	1934
Key members	Rambriksh Benipuri, Jai Prakash Narayan, Ram Manohar Lohia, Acharya Narendra Deva

80. Answer: c

Explanation:

- **Volcanoes** are known as the safety valves of nature
- A safety valve is an opening that opens up to release built-up pressure inside equipment which can cause the equipment to dysfunction
- Similarly, there are huge pressures and high temperatures inside the Earth as you go closer to the Earth's core
- This pressure is sometimes relieved in the form of volcanic eruptions that discharge large amounts of magma, heat and gases that are built up within the Earth and thus it is known as 'a safety valve' of the planet

81. Answer: b

Explanation:

- Nepal Himalayas stretches for a distance of 800 km between the Kali and the Tista rivers. Most of it lies in Nepal as a result of which it is called the Nepal Himalayas.

Kashmir or Northwestern Himalayas	It comprise a series of ranges such as the Karakoram, Ladakh, Zaskar and Pir Panjal.
The Himachal and Uttaranchal Himalayas	This part lies approximately between the Ravi in the west and the Kali (a tributary of Ghaghara) in the east
The Darjiling and Sikkim Himalayas	They are flanked by Nepal Himalayas in the west and Bhutan Himalayas in the east
The Arunachal Himalayas	Extend from the east of the Bhutan Himalayas up to the Diphu pass in the east
The Eastern Hills and Mountains	These are part of the Himalayan mountain system having their general alignment from the north to the south direction

82. Answer: a

Explanation:

- Bohag Bihu is indigenous to Assam and is related to the festival of Bihu, it is the main festival of the state.
- It is a group dance usually performed by young men and women and it involves using rapid hand movements and brisk steps.

83. Answer: d

Explanation:

- On December 8, 2017 during Maldivian President Abdulla Yameen's four-day visit to Beijing, is Maldives' first with any country.
 - Maldives has become the second South Asian country after Pakistan to sign a Free Trade Agreement with China.
-

84. Answer: a**Explanation:**

- Anuk Arudpragasam's story of a young man displaced by civil war in Sri Lanka was awarded the DSC Prize for South Asian Literature.
 - The Story of a Brief Marriage is Colombo-born Arudpragasam's debut novel and was first released in 2016 in English. The author, also writes in Tamil apart from English.
-

85. Answer: b**Explanation:**

- The 38th Prime Minister of Nepal is from the Communist Party of Nepal, he is one of the two chairmen of the party and has assumed office from February 18 2018 under the new constitution of Nepal.
-

86. Answer: b**Explanation:**

- Each shell can contain only a fixed number of electrons. The general formula is that the n^{th} shell can in principle hold up to $2n^2$ electrons.

Shell	Electrons
K Shell	2
L Shell	8
M Shell	18

87. Answer: d

Explanation:

- Methane is not an allotrope of carbon, it is a hydrocarbon compound with the formula CH_4 . An allotrope cannot be a compound and hence methane is the right answer.
- The definition for an allotropes is that they are different physical forms in which an element can exist. Graphite, charcoal, C-60 and diamond are all allotropes of carbon.

88. Answer: b

Explanation:

Money Bill refers to a bill (draft law) introduced in the Lower Chamber of Indian Parliament (Lok Sabha) which generally covers the issue of receipt and spending of money, such as tax laws, laws governing borrowing and expenditure of the Government, prevention of black money etc. It is mentioned in Article 110 of Indian Constitution.

Article 56	Term of office of President
Article 252	Power of Parliament to legislate for two or more states by consent and adoption of such legislation by any other state
Article 256	Obligation of states and the Union

89. Answer: a

Explanation:

- A national emergency as stated under article 352 can be proclaimed on basis of external aggression or armed rebellion in the whole of India or a part of its territory.

Type Of Emergency	Related Article
National Emergency	Article 352
Financial Emergency	Article 360
President's Rule	Article 356 & 365

90. Answer: a

Explanation:

- Whenever sudden activity of a muscle takes place the muscles cannot be supplied with enough oxygen.
 - To satisfy the need of energy anaerobic respiration takes place forming lactic acid as the by product. Lactic acid causes pain and stiffness in the muscles.
-

91. Answer: a

Explanation:

- M. Schleiden and T. Schwann cofounded the theory that the cell is the basic unit of life in 1804 in Neuss which is near Dusseldorf in Germany.
 - The cell theory states that all plants and animals are made up of cells and the cell is the basic unit of life.
-

92. Answer: b

Explanation:

The National Nutrition Mission has been setup with a budget of Rs 9046.17 Crore for a period of 3 years and its main aim is to increase the nutritional education on the country and to generate more awareness towards it.

93. Answer: a

Explanation:

- The terminal opened in Shanghai Yangshan Deep Water Port. The project uses automated handling equipment designed and manufactured in China.
 - The machinery used in loading and unloading, including a bridge crane, an automated guided vehicle (AGV) and a rail-mounted gantry crane, are all made in China by Shanghai Zhenhua Heavy Industries Company.
-

94. Answer: b

Explanation:

- The five year dated green Masala bond raised approximately \$300 million (INR 19.5 billion) with a coupon of 7.125 per cent and becomes the first green Masala bond to be listed on London Stock Exchange's International Securities Market (ISM).
 - The green bond is certified by Climate Bonds Initiative, an international, investor-focused not-for-profit, which helps build robust and transparent assurance frameworks around green bond investment.
-

95. Answer: c

Explanation:

The bill passed states that the Union Government must hold at least 51% stake of capital share in NABARD.

NABARD	National Bank for Agriculture and Rural Development
headquartered at	Mumbai
Founded	12 July 1982
Agency executive	Harsh Kumar Bhanwala (Chairman)

96. Answer: c

Explanation:

The correct answer is 0.1.

★ Key Points

- The mass of the ejected body and the mass of the recoiling body are related to one another by the law of conservation of momentum which is obtained from **Newton's laws of motion**.
- According to the **law of conservation of momentum**, for every action, there is an equal and opposite reaction. Recoiling velocity is an example of this law. From the law, it can be said that
 - $m_1 v_1 = -m_2 v_2$
 - m_1 and v_1 are the mass and velocity of the bullet
 - m_2 and v_2 are the mass and velocity of the gun
- Here $m_1 = 10\text{g} = 0.01\text{ kg}$, $v_1 = 20\text{ m/s}$ and $m_2 = 2\text{ kg}$,

$$\Rightarrow m_1 v_1 = -m_2 v_2$$

$$\Rightarrow 0.01 \times 20 = -2 \times v_2$$

$$\Rightarrow v_2 = 0.2 / 2 = 0.1 \text{ m/s}$$

Note: Recoil velocity will always be **negative** as the gun will always move in the opposite direction of the fired bullet.

97. Answer: c

Explanation:

- The statement is from Newton's Second Law of Motion which states that the rate of change of momentum of an object is directly proportional to the resultant force applied and is in the direction of the resultant force.
 - The resultant force is equal to the rate of change of momentum.
-

98. Answer: d

Explanation:

- Most earthquakes occur along the edge of the oceanic and continental plates. The earth's crust (the outer layer of the planet) is made up of several pieces called plates.
 - The plates under the oceans are called oceanic plates and the rest are continental plates. Earthquakes usually occur where two plates are running into each other or sliding past each other.
-

99. Answer: d

Explanation:

None of these statements are true.

- Fan Zhendong was the runner up at the World Table Tennis Championship in 2017
 - Sunil Narine was not retained and played for the Kolkata Knight Riders
 - Netherlands won the 2016-17 Women's FIH Hockey World League Final
-

100. **Answer: c**

Explanation:

- Computers and communication technologies affect our lives in ways that include educational and in the way we learn and shape the course of our learning according to our own interests.

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