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Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPS



UPTET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC MTS Previous Year Paper (Held on: 10 Oct 2017 Shift 3)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

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

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

General English

1. In the following question, 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'. (+1, -0.25)

But migrant labourers who (1)/ have being working inside the (2)/ premises for years. (3)/ No Error (4)

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

2. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'. (+1, -0.25)

Someone who used to follow (1)/ Satguru told me that I could (2)/ work where. (3)/ No Error (4)

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

3. Fill in the blanks. (+1, -0.25)

Sohail was busy when we _____ to see him.

- a. went
 - b. go
 - c. goes
 - d. gone
-

4. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option. (+1, -0.25)

My parents have given their _____ to the match.

- a. Refuse
 - b. Accept
 - c. Assent
 - d. Expect
-

5. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word. (+1, -0.25)

Tackle

- a. Avoid
 - b. Forget
 - c. Neglect
 - d. Deal
-

6. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word. (+1, -0.25)

Smudge

- a. Clean
- b. Sanitary
- c. Pure
- d. Stain

7. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word. (+1, -0.25)

Unanimous

- a. Split
- b. Undisputed
- c. Cleaved
- d. Separate

8. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word. (+1, -0.25)

Defy

- a. Brave
- b. Yield

- c. Defeat
 - d. Ignore
-

9. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word. (+1, -0.25)

Obligate

- a. Force
 - b. Indebt
 - c. Restrict
 - d. Let-off
-

10. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word. (+1, -0.25)

Stern

- a. Bitter
 - b. Cruel
 - c. Light
 - d. Grim
-

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

To pull one's leg

- a. To everyone's liking
 - b. To tease someone
 - c. To bribe
 - d. To be afraid of
-

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

Snake in the grass

- a. Very clear
 - b. Something mandatory
 - c. A hidden enemy
 - d. An exciting moment
-

13. Improve the bracketed part of the sentence. (+1, -0.25)

But she (win more) hearts for her gallant display of endurance.

- a. wonned more
 - b. won more
 - c. wan more
 - d. No improvement
-

14. Improve the bracketed part of the sentence. (+1, -0.25)

In doing so, she (farther) raised the profile of badminton and of women's sport itself in India.

- a. far away
 - b. far off
 - c. further
 - d. No improvement
-

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

A portable radio set.

- a. Transistor
 - b. Transcription
 - c. Transposition
 - d. Transaction
-

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

The bony framework of the body.

- a. Respiratory system
- b. Skeleton
- c. Neurons
- d. Arteries

17. 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. (+1, -0.25)

- a. Woollen
- b. Wollen
- c. Woolen
- d. Wolen

18. 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. (+1, -0.25)

- a. Sukceed
- b. Succed
- c. Sucedde
- d. Succeed

19. Rearrange the parts of the sentence in correct order. (+1, -0.25)

Deforestation is

P: society and environment

Q: arising as a major

R: problem to the

- a. QRP
- b. PRQ

c. QPR

d. RPQ

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

(+1, -0.25)

Stress is said to be positive

P: an opportunity for

Q: one to give something

R: when the situation offers

a. QRP

b. RPQ

c. PQR

d. RQP

21. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

(+1, -0.25)

Reading habit is one of the best characteristics that a man can possess. Once the habit of reading books grows in one, it _____ dies out. It is said that a book is one's best friend in life. By reading a good book, one can not only earn knowledge but also _____ experience in life, and realize the eternal truth. A good book can guide one in the _____ direction in his life's journey. The taste of reading should be acquired early in life, because a good book refreshes one's mind and brings _____ pleasure. Just to read any book, whatever comes near at hand, is not called a good reading habit, because worthless books cannot provide

knowledge. It is only a good book that can provide innocent joy and pure wisdom that one _____. So there must be a proper selection of books which are to be read.

It _____ dies out.

- a. Seldom
- b. thinks
- c. usually
- d. frequently

22. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+1, -0.25)

Reading habit is one of the best characteristics that a man can possess. Once the habit of reading books grows in one, it _____ dies out. It is said that a book is one's best friend in life. By reading a good book, one can not only earn knowledge but also _____ experience in life, and realize the eternal truth. A good book can guide one in the _____ direction in his life's journey. The taste of reading should be acquired early in life, because a good book refreshes one's mind and brings _____ pleasure. Just to read any book, whatever comes near at hand, is not called a good reading habit, because worthless books cannot provide knowledge. It is only a good book that can provide innocent joy and pure wisdom that one _____. So there must be a proper selection of books which are to be read.

knowledge but also _____ experience

- a. wane
- b. slain

c. gain

d. wain

-
23. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+1, -0.25)

Reading habit is one of the best characteristics that a man can possess. Once the habit of reading books grows in one, it _____ dies out. It is said that a book is one's best friend in life. By reading a good book, one can not only earn knowledge but also _____ experience in life, and realize the eternal truth. A good book can guide one in the _____ direction in his life's journey. The taste of reading should be acquired early in life, because a good book refreshes one's mind and brings _____ pleasure. Just to read any book, whatever comes near at hand, is not called a good reading habit, because worthless books cannot provide knowledge. It is only a good book that can provide innocent joy and pure wisdom that one _____. So there must be a proper selection of books which are to be read.

guide one in the _____ direction in his life's

a. wrong

b. front

c. right

d. lift

-
24. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+1, -0.25)

Reading habit is one of the best characteristics that a man can possess. Once the habit of reading books grows in one, it _____ dies out. It is said that a book is one's best friend in life. By reading a good book, one can not only earn knowledge but also _____ experience in life, and realize the eternal truth. A good book can guide one in the _____ direction in his life's journey. The taste of reading should be acquired early in life, because a good book refreshes one's mind and brings _____ pleasure. Just to read any book, whatever comes near at hand, is not called a good reading habit, because worthless books cannot provide knowledge. It is only a good book that can provide innocent joy and pure wisdom that one _____. So there must be a proper selection of books which are to be read.

brings _____ pleasure.

- a. cense
- b. commence
- c. immense
- d. condenses



25. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+1, -0.25)

Reading habit is one of the best characteristics that a man can possess. Once the habit of reading books grows in one, it _____ dies out. It is said that a book is one's best friend in life. By reading a good book, one can not only earn knowledge but also _____ experience in life, and realize the eternal truth. A good book can guide one in the _____ direction in his life's journey. The taste of reading should be acquired early in life, because a good book refreshes one's mind and brings _____ pleasure. Just to read any book, whatever comes near at

hand, is not called a good reading habit, because worthless books cannot provide knowledge. It is only a good book that can provide innocent joy and pure wisdom that one _____. So there must be a proper selection of books which are to be read.

pure wisdom that one _____.

- a. ignores
- b. retires
- c. separates
- d. aspires

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General Intelligence & Reasoning

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

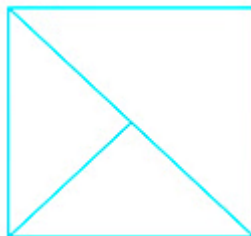
2	3	5	30
3	5	7	45
7	2	3	?

- a. 36
- b. 24
- c. 42
- d. 66

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



- a. 6
- b. 7
- c. 4

d. 10

28. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. Two columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'E' can be represented by 32, 67, etc., and 'A' can be represented by 12, 68, etc. similarly, you have to identify the set for the word "LOCKS". (+1, -0.25)

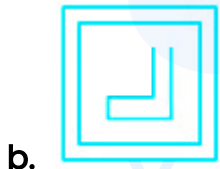
Matrix-I						Matrix-II					
	0	1	2	3	4		5	6	7	8	9
0	Y	L	U	A	D	5	Q	H	O	Y	S
1	K	S	A	O	E	6	F	P	E	A	C
2	J	M	N	L	T	7	N	H	I	J	R
3	V	C	E	F	U	8	K	N	G	Q	O
4	D	K	J	U	A	9	V	R	T	H	I

- a. 23, 89, 31, 10, 12
 b. 01, 13, 67, 86, 11

c. 23, 13, 31, 40, 59

d. 01, 57, 31, 85, 11

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

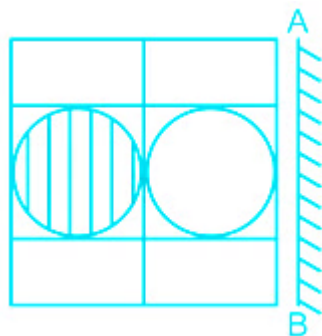


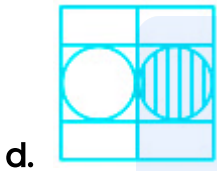
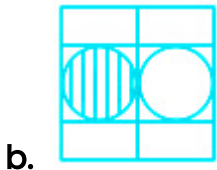
30. Which answer figure will complete the pattern in the question figure? (+1, -0.25)



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





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

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33. If '-' means '÷', '÷' means '-', '+' means '×' and '×' means '+', then which of the following equation is true? (+1, -0.25)

- a. $11 \times 2 + 9 - 3 = 15$
- b. $14 + 2 - 4 \times 6 = 14$
- c. $19 + 2 \times 6 - 3 = 40$
- d. $9 - 6 + 12 \times 2 = 22$

34. If $27 @ 22 = 25$ and $39 @ 33 = 36$, then $25 @ 22 = ?$ (+1, -0.25)

- a. 25
- b. 49
- c. 16
- d. 9

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

1. Guard
 2. Guest
 3. Grain
 4. Grove
 5. Graph
- a. 54312
 - b. 34521
 - c. 35124
 - d. 35412

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

4, 6, 10, 18, 34, 66, ?

- a. 128
- b. 126
- c. 130
- d. 132

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

D, F, H, J, ?

- a. K

- b. L
 - c. M
 - d. H
-

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

- a. Tornado
 - b. Volcano
 - c. Typhoon
 - d. Hurricane
-

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

- a. 24 - 124
 - b. 35 - 215
 - c. 63 - 513
 - d. 15 - 63
-

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

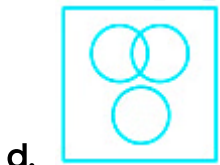
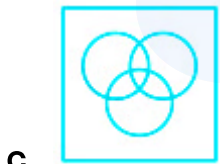
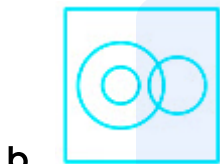
- a. ACF
- b. JLP

c. RTW

d. GIL

41. Identify the diagram that best represents the relationship among the given classes. (+1, -0.25)

Female, Teacher, Writer



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

Mustard : Seed :: Cauliflower : ?

a. Fruit

- b. Spice
 - c. Vegetable
 - d. Ground
-

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

8 : 64 :: 11 : ?

- a. 149
 - b. 100
 - c. 121
 - d. 169
-

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

POST : NMQR :: HUNT : ?

- a. GTMR
 - b. FSLR
 - c. FSMR
 - d. GTLR
-

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

AWARDING

- a. SIGN
 - b. WIND
 - c. WAR
 - d. AWARD
-

46. Sanjay walks 10 km towards east. He turns right and walks 5 km. He turns right and walks 10 km. How far (in km) is he from his starting point? **(+1, -0.25)**

- a. 10
 - b. 5
 - c. 15
 - d. 20
-

47. There are 47 cars in a row. A black car is 18th from the right end and a white car is 39th from the right end. How many cars are there between these black and white cars? **(+1, -0.25)**

- a. 21
 - b. 20
 - c. 19
 - d. 18
-

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

Statements:

- I. All red are coal.
- II. Some red are green.

Conclusions:

- I. All red are green.
 - II. Some coals are green.
- a. Only conclusion (I) follows.
 - b. Only conclusion (II) follows.
 - c. Both conclusions follow.
 - d. Neither conclusion (I) nor conclusion (II) follows.

49. In a certain code language, "DATE" is written as "EBUF". How is "CHIP" written in that code language? (+1, -0.25)

- a. DIJQ
- b. DIJR
- c. DIKQ
- d. DJJQ

50. In a certain code language, "EAR" is written as "23" and "EYE" is written as "34". How is "ARM" written in that code language? (+1, -0.25)
- a. 30
 - b. 31
 - c. 32
 - d. 33

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Numerical Aptitude

51. What is the least number which leaves 1 as a remainder when divided by 6 and 7? (+1, -0.25)
- a. 85
 - b. 43
 - c. 37
 - d. 29
-

52. What is the value of 0.001040? (+1, -0.25)
- a. $104/1000$
 - b. $104/1000000$
 - c. $104/100000$
 - d. $104/10000$
-

53. If 465781P is completely divisible by 12, then what is the value of P? (+1, -0.25)
- a. 2
 - b. 6
 - c. 2 or 6
 - d. 8
-

54. What is the value of $\sqrt{(269 - 169)}$? (+1, -0.25)
-

- a. 17
 - b. 10
 - c. 22
 - d. 16
-

55. What is the value of 296×304 ? (+1, -0.25)

- a. 89974
 - b. 89874
 - c. 79984
 - d. 89984
-

56. What is the value of $(\sqrt{5} - \sqrt{3}) \div (\sqrt{5} + \sqrt{3})$? (+1, -0.25)

- a. $4 - \sqrt{15}$
 - b. $6 - 2\sqrt{15}$
 - c. $8 - 2\sqrt{15}$
 - d. $4 + \sqrt{15}$
-

57. Three taps A, B and C can fill a tank in 10, 12 and 15 hours respectively. If all the taps are opened together, then in how many hours will the tank be filled? (+1, -0.25)

- a. 4

- b. 6
 - c. 8
 - d. 2
-

58. Two pipes P and Q, when opened alone can fill the tank in 20 and 30 hours respectively. If both pipes are opened together, then in how many hours will the tank be filled? (+1, -0.25)

- a. 12
 - b. 24
 - c. 8
 - d. 15
-

59. The length and breadth of a rectangle are in the ratio 8 : 3. If the perimeter of the rectangle is 220 cm, then what is the length of the rectangle? (+1, -0.25)

- a. 60 cm
 - b. 70 cm
 - c. 80 cm
 - d. 85 cm
-

60. If the difference between discount of 30% and two successive discounts of 20% on a certain bill is Rs. 42, then what is the amount of the bill? (+1, -0.25)

- a. 400

- b. 300
 - c. 700
 - d. 820
-

61. If a shopkeeper marks the price of goods 40% more than their cost price and allows a discount of 30%, then what is his gain or loss percent? (+1, -0.25)

- a. 5%, Loss
 - b. 10%, Loss
 - c. 2%, Loss
 - d. 7.5%, Profit
-

62. Incomes of X and Y are in the ratio of 5 : 3. Their expenditures are in the ratio 9 : 5. If both save Rs. 1600 at the end of the month, then what is the income of X? (+1, -0.25)

- a. Rs. 18000
 - b. Rs. 16000
 - c. Rs. 9600
 - d. Rs. 14000
-

63. If 6.3 of $a = 1.17$ of b , then what is $a : b$? (+1, -0.25)

- a. 13 : 70
- b. 91 : 7

c. 7 : 130

d. 13 : 7

64. Average of 5 consecutive even numbers is 42. Which number is the largest of the 5 numbers? (+1, -0.25)

a. 44

b. 46

c. 42

d. 48

65. A sold a cycle to B at a profit of 20%. B sold the cycle to C at a profit of 30%. If C pays Rs. 468 for cycle, then for how much A bought the cycle? (+1, -0.25)

a. 320

b. 400

c. 300

d. 280

66. By selling an article for Rs. 360 there is a loss of 10%. What is the cost price of the article? (+1, -0.25)

a. Rs. 324

b. Rs. 450

c. Rs. 400

d. Rs. 380

67. A number is increased first by 20% and then it is decreased by 10%. What is the percentage change in the number? (+1, -0.25)

- a. 8% decrease
 - b. 10% decrease
 - c. 10% increase
 - d. 8% increase
-

68. A is 20% less than B. B is 10% less than C. C is 30% more than D. If D is 400, then what is the value of A? (+1, -0.25)

- a. 374.4
 - b. 368.6
 - c. 382.2
 - d. 354.2
-

69. The speed of a boat in still water is 8 km/hr. It covers a distance of 52 km upstream in 8 hours. What is the speed (in km/hr) of the stream? (+1, -0.25)

- a. 1.5
- b. 2
- c. 3
- d. 2.5

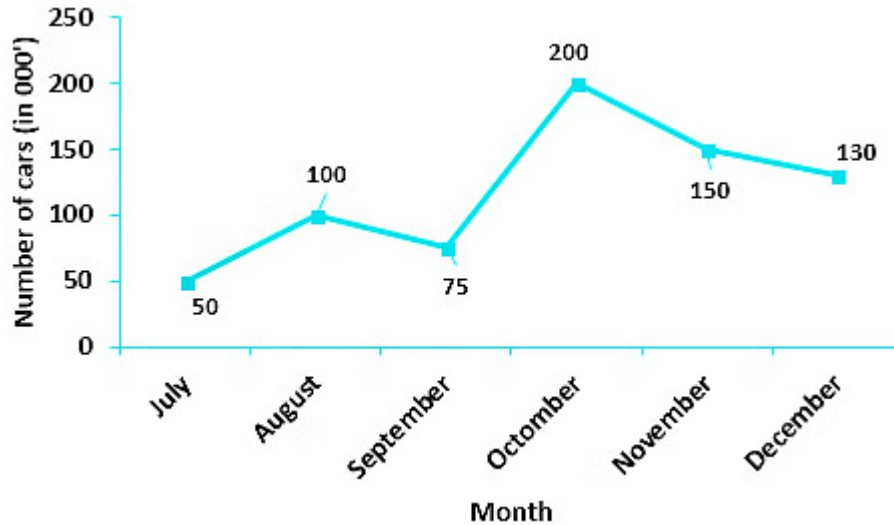
70. A train running with a speed of 45 km/hr, crosses a telephone pole. If the length of train is 810 meters, then what is the time taken (in seconds) by the train to cross the pole? (+1, -0.25)

- a. 66 s
- b. 64.8 s
- c. 68 s
- d. 67.2 s

71. In how much time will Rs. 9000 amount to Rs. 13500 at simple interest at the rate of 5% per annum? (+1, -0.25)

- a. 15 years
- b. 10 years
- c. 12 years
- d. 13 years

72. **Directions:** The line chart given below shows the number of cars manufactured (in 000') by company X in year 2015 from the month of July to December. (+1, -0.25)

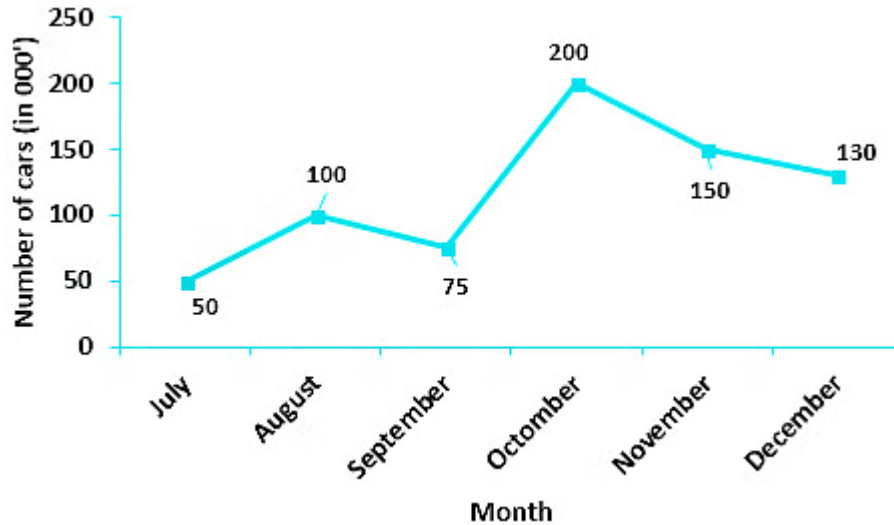


What is the percentage change in the number of cars manufactured in December to that in July?

- a. 130
- b. 80
- c. 160
- d. 140

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73. **Directions:** The line chart given below shows the number of cars manufactured (in 000') by company X in year 2015 from the month of July to December. (+1, -0.25)



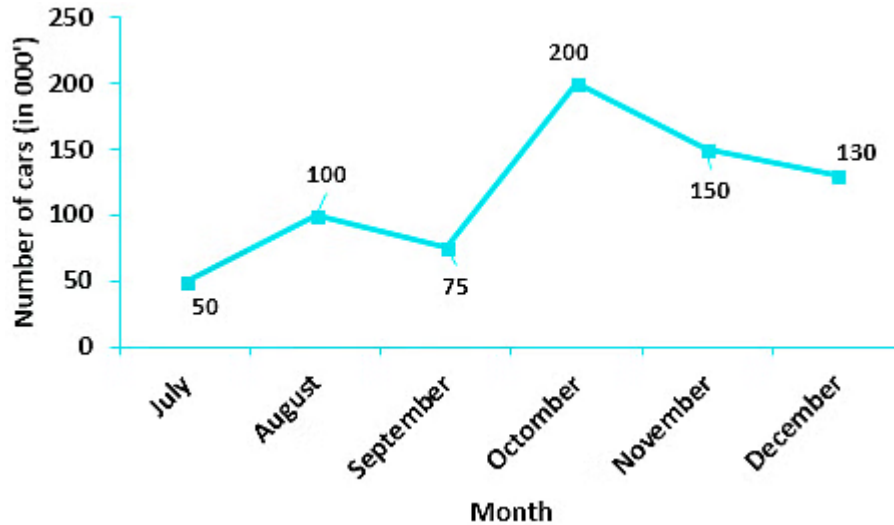
The difference between the maximum and minimum number of cars manufactured among the given months is what percentage of the cars manufactured in September?

- a. 250
- b. 300
- c. 150
- d. 200

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74. **Directions:** The line chart given below shows the number of cars manufactured (in 000') by company X in year 2015 from the month of July to December.

(+1, -0.25)

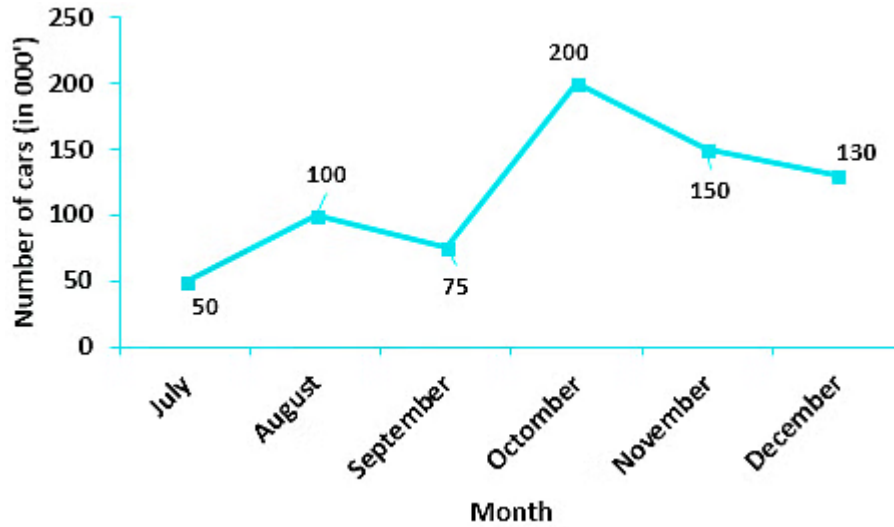


What is the average number of cars manufactured (in 000') by the company X from July to November?

- a. 105
- b. 100
- c. 115
- d. 141

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75. **Directions:** The line chart given below shows the number of cars manufactured (in 000') by company X in year 2015 from the month of July to December. (+1, -0.25)



In how many months was the number of cars manufactured a multiple of 10,000?

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



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General Awareness

76. _____ by the Government of the country makes money acceptable as a medium of exchange. (+1, -0.25)
- a. Permission
 - b. Instructions
 - c. Authorization
 - d. Ownership
-

77. Literacy rate in India is measured after which age? (+1, -0.25)
- a. 5 years and above
 - b. 7 years and above
 - c. 9 years and above
 - d. 11 years and above
-

78. Which part of Indian constitution deals with 'The union and its territories'? (+1, -0.25)
- a. Part I
 - b. Part II
 - c. Part III
 - d. Part IV
-

79. In which form of government the final decision-making power lies with those elected by the people? (+1, -0.25)

- a. Autocratic
- b. Democratic
- c. Aristocratic
- d. Monarchic

80. Which is the oldest Veda among the four Vedas? (+1, -0.25)

- a. Rigveda
- b. Samaveda
- c. Yajurveda
- d. Atharvaveda

81. Who was the scholar entrusted by Sultan Mahmud of Ghazni to write an account of the subcontinent? (+1, -0.25)

- a. Malik Jayasi
- b. Al-Baruni
- c. Amir Khusrau
- d. Shah Latif

82. Movement of Earth on its axis is called _____. (+1, -0.25)

- a. Revolution
 - b. Rotation
 - c. Translation
 - d. Illumination
-

83. What is the approximate area of India (in million km²)? (+1, -0.25)

- a. 2.78
 - b. 3.28
 - c. 4.35
 - d. 3.6
-

84. Which is/are NOT Abiotic components? (+1, -0.25)

- I. Plants
 - II. Animals
 - III. Water
- a. Only I
 - b. Only II
 - c. Both I and II
 - d. All I II and III
-

85. The incisor tooth is meant for _____ (+1, -0.25)

- a. Biting and Cutting
 - b. Chewing
 - c. Crushing
 - d. Churning
-

86. At high altitude, RBC's of human blood will _____ . (+1, -0.25)

- a. increase in the number
 - b. decrease in the number
 - c. decrease in size
 - d. increase in size
-

87. An object is said to be in what kind of motion if its speed keeps changing while moving along a straight line? (+1, -0.25)

- a. Uniform motion
 - b. Non-uniform motion
 - c. Periodic motion
 - d. Aperiodic motion
-

88. When an electric current passes through a wire it behaves like a _____. (+1, -0.25)

- a. Fuse
- b. Battery

- c. Magnet
 - d. Element
-

89. What is the typed, submitted or transmitted data called in a computer system? (+1, -0.25)

- a. Output
 - b. input
 - c. Router
 - d. Modem
-

90. Which of the following is an example of a mixture? (+1, -0.25)

- a. Glucose
 - b. Brass
 - c. CO₂
 - d. NO₂
-

91. A double bond between two carbon atoms is formed by _____. (+1, -0.25)

- a. the transfer of two protons from one carbon atom to the other
- b. the transfer of one electron from one carbon atom to the other
- c. two shared electron pairs
- d. the sharing of two protons

92. All green plants and certain blue-green algae which can produce food by photosynthesis are called the _____.

(+1, -0.25)

- a. Consumers
- b. Producers
- c. Decomposers
- d. Bacteria

93. What is the minimum age for joining National pension Scheme?

(+1, -0.25)

- a. 18 years
- b. 21 years
- c. 25 years
- d. 30 years

94. What was invented by Samuel Colt?

(+1, -0.25)

- a. Revolver
- b. Refrigerator
- c. Safety Razor
- d. Penicillin

95. Bull's eye is associated with which sports?

(+1, -0.25)

- a. Baseball
 - b. Badminton
 - c. Shooting
 - d. Polo
-

96. Which region of India is famous for Patola print dupattas? (+1, -0.25)

- a. Jammu and Kashmir
 - b. Gujarat
 - c. Karnataka
 - d. Tamil Nadu
-

97. Who among the following is NOT a recipient of Arjun Award 2017? (+1, -0.25)

- a. CheteshwarPujara
 - b. Mariyappan
 - c. Jasvir Singh
 - d. Anup Kumar
-

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

- a. Munshi Premchand
- b. Rabindranath Tagore

- c. Durga Das
 - d. B.P Singh
-

99. Which of the following was adopted as an outcome document of the 11th edition of the Asia-Europe Meeting Summit (ASEM-11) held in Mongolia? (+1, -0.25)

- a. Ulaanbaatar Declaration
 - b. Mongolia Declaration
 - c. Bangkok Framework
 - d. Hague declaration
-

100. Which is the first Integrated Check Post on the India-Bangladesh border? (+1, -0.25)

- a. Agartala Integrated Check Post
- b. Petrapole Integrated Check Post
- c. Harinagar Integrated Check Post
- d. Silchar Integrated Check Post

Answers

1. Answer: d

Explanation:

The error lies in part 2 of the sentence as the word 'being' needs to be replaced with 'been'.

2. Answer: c

Explanation:

Explanation:

The error lies in part 3 of the sentence as the word 'where' does not fit here. The correct word here is 'here' or 'there.'

3. Answer: a

Explanation:

The correct verb here is 'went' which is in the simple past tense.

The sentence refers to the event of Sohail being busy and us going to see him—both of which occur in the past—simultaneously.

The sentence is structured in simple past tense so **option 1 is the correct answer.**

4. Answer: c

Explanation:

The sentence needs a noun here so the word 'assent' which means 'approval' fits here correctly. The other options are verbs. They do not fit here.

5. Answer: d

Explanation:

The word 'tackle' means 'deal.' The word 'neglect' means 'fail to care for properly.' Thus option 4 is the correct answer.

6. Answer: d

Explanation:

The meanings of the words are:

Smudge=> a blurred or smeared mark on the surface of something

Sanitary=> relating to the conditions that affect hygiene and health, especially the supply of sewage facilities and clean drinking water

Stain=> mark or discolour with something that is not easily removed

Thus option 4 is the correct answer.

7. Answer: b

Explanation:

The correct answer is Option 2 i.e Undisputed



Explanation

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

- **Unanimous** : Fully in agreement.
- **Undisputed** : Not disputed; accepted.

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

Thus, the correct answer is Option 2 Undisputed.



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

- **Split** : Break or cause to break; divide.
- **Cleaved** : Split or sever especially along a natural line.
- **Separate** : Cause to move or be apart.

8. Answer: b

Explanation:

The correct answer is Option 2 i.e Yield



Explanation

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

- **Defy** : Openly resist or refuse to obey.
- **Yield** : Give way to arguments, demands, or pressure.

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

Thus, the correct answer is Option 2 Yield



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

- **Brave** : Ready to face and endure danger or pain.
- **Defeat** : Win a victory over (someone) in a battle or other contest; overcome or beat.
- **Ignore** : Refuse to take notice or acknowledge.

9. Answer: d

Explanation:

The correct answer is Option 4 i.e Let-off



Explanation

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

- **Obligate** : To bind or oblige morally or legally.
- **Let-off** : A chance to escape or avoid something.

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

Thus, the correct answer is Option 4 Let-off



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

- **Force** : Strength or energy as an attribute of physical action.

- **Indebt** : Cause to owe money or obligation.
- **Restrict** : Put a limit on; keep under control

10. **Answer: c**

Explanation:

The correct answer is Option 3 i.e Light



Explanation

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

- **Stern** : Strict and severe.
- **Light** : Gentle or delicate.

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

Thus, the correct answer is Option 3 Light

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

- **Bitter** : Having a sharp, pungent taste.
- **Cruel** : Willfully causing pain or suffering to others.
- **Grim** : Very serious or gloomy.

11. **Answer: b**

Explanation:

The idiom 'to pull one's leg' means 'to tease someone.'

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

12. Answer: c

Explanation:

The idiom 'snake in the grass' means 'a hidden enemy.' Thus option 3 is the correct answer.

13. Answer: b

Explanation:

The correct tense is simple past as the sentence talks about a past incident. Thus option 2 is the correct answer.

14. Answer: c

Explanation:

The correct word that fits here is 'further' which means 'to a greater extent.' Thus option 3 is the correct answer.

15. Answer: a

Explanation:

The correct answer is **Option 1 i.e. 'Transistor'**



Explanation:

- Let's see the meanings of the words:
 - **Transistor**=> a semiconductor device with three connections, capable of amplification in addition to rectification
 - **Transcription**=> a written or printed version of something; a transcript
 - **Transposition**=> the action of transposing something
 - **Transaction**=> deal

Thus option 1 is the correct answer.

16. Answer: b

Explanation:

The meanings of the words are:

Skeleton=> an internal or external framework of bone, cartilage, or other rigid material supporting or containing the body of an animal or plant

Neurons=> nerve cells

Arteries=> a kind of blood vessel

Thus option 2 is the correct answer.

17. Answer: a

Explanation:

The correct word is 'woollen' which means 'made up of wool.'

18. Answer: d

Explanation:

The correct word is 'succeed' which means 'achieve the desired result.'

19. Answer: a

Explanation:

Q is the first statement as it has the verb 'arising' mentioned in it. R follows Q as the word 'problem' fits correctly after the adjective 'major.' P follows R as it states to whom the problem is caused. Thus option 1 is the correct answer.

20. Answer: b

Explanation:

R must be the first statement as 'when' is mentioned here. P follows R as it mentions what the situation offers. Q follows P as it mentions for whom the opportunity is offered. Thus option 2 is the correct answer.

21. Answer: a

Explanation:

The correct word is 'seldom' which means 'very less times.' The sentence properly mentions the advantage of reading so option 1 is the correct answer.

22. Answer: c

Explanation:

The correct word here is 'gain' which means 'obtain or secure.' Experience is gained and the other words do not fit here. The word 'slain' means 'killed or murdered' and 'wane' means 'disappear.'

23. Answer: c

Explanation:

The correct word here is 'right' as the adjective 'good' is already mentioned before the noun 'book.' The other words do not convey any meaning here.

24. Answer: c

Explanation:

The word 'cense' means 'ritually perfume (something) with the odour of burning incense' and does not fit here. The word 'commence' means 'start' and does not fit either. The correct adjective here is 'immense' which means 'to a great extent.' The word 'condenses' means 'make (something) denser or more concentrated' and does not fit in the context. Thus option 3 is the correct answer.

25. Answer: d

Explanation:

Wisdom is definitely not 'ignored'. The correct word here is 'aspires' which means 'aims for.' The word 'retires' means 'leave one's job and cease to work, typically on reaching the normal age for leaving service' and does not fit here. Thus option 4 is the correct answer.

26. Answer: a

Explanation:

Logic:

In rows, the number at the end is obtained by adding all the three numbers and the resultant is multiplied by 3.

First row:

$$(2 + 3 + 5) \times 3$$

$$10 \times 3 = 30$$

Second row:

$$(3 + 5 + 7) \times 3$$

$$15 \times 3 = 45$$

Similarly;

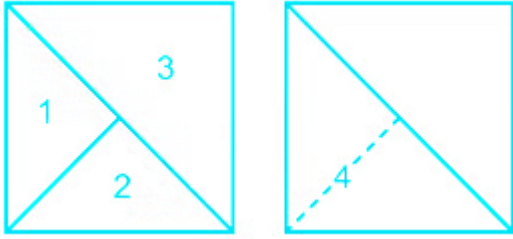
$$(7 + 2 + 3) \times 3$$

$$12 \times 3 = 36$$

Hence, the missing number is 36.

27. Answer: c

Explanation:



Clearly, 4 triangles are there in the given figure.

28. Answer: d

Explanation:

1) 23, 89, 31, 10, 12 → LOCKA

2) 01, 13, 67, 86, 11 → LOENS

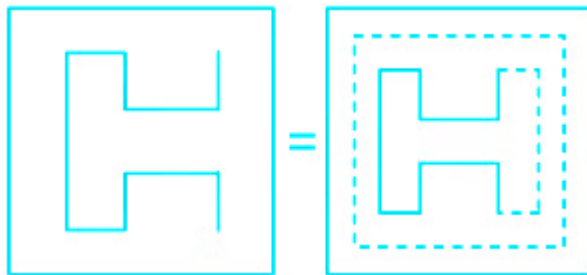
3) 23, 13, 31, 40, 59 → LOCDS

4) 01, 57, 31, 85, 11 → LOCKS

Clearly, '01, 57, 31, 85, 11' represents word 'LOCKS'.

29. Answer: d

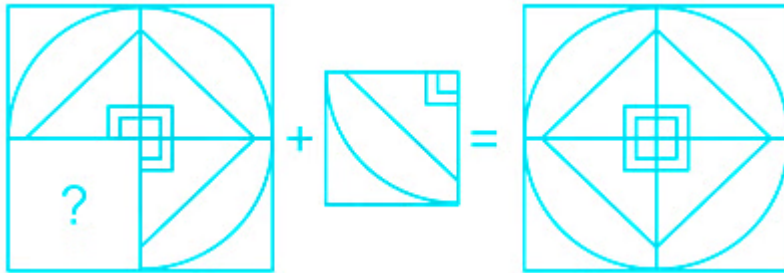
Explanation:



Hence, the given question figure is embedded in option 4.

30. Answer: b

Explanation:



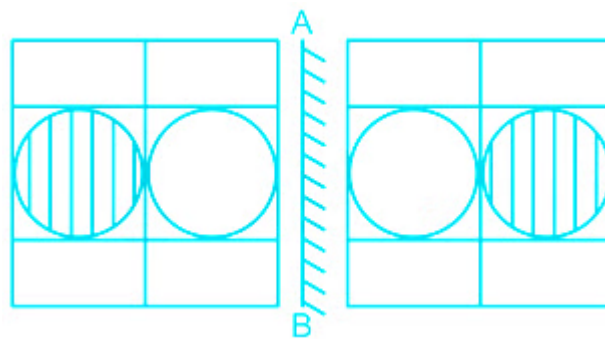
Hence, option 2 will complete the given question figure.

31. Answer: d

Explanation:

A vertical mirror is placed, so the object at the left will appear at the right. In option 1 and 3 the position of the circle is changed in opposite direction, hence both the options will be eliminated. In option 2, it is same as question figure, so it is also eliminated.

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Hence, the correct answer is option 4.

32. Answer: a

Explanation:



Hence, the unfolded figure will be similar to option 1.

33. Answer: c

Explanation:

Symbols	-	÷	+	×
Meaning	÷	-	×	+

1) $11 \times 2 + 9 - 3 = 15$

On changing symbols

$11 + 2 \times 9 \div 3$

$11 + 2 \times 3$

$11 + 6$

$= 17$

Hence, this equation is false.

2) $14 + 2 - 4 \times 6 = 14$

On changing symbols

$$14 \times 2 \div 4 + 6$$

$$14 \times 0.5 + 6$$

$$7 + 6$$

$$= 13$$

Hence, this equation is false.

$$3) 19 + 2 \times 6 - 3 = 40$$

On changing symbols

$$19 \times 2 + 6 \div 3$$

$$19 \times 2 + 2$$

$$38 + 2$$

$$= 40$$

Hence, this equation is *true*.

$$4) 9 - 6 + 12 \times 2 = 22$$

On changing symbols

$$9 \div 6 \times 12 + 2$$

$$1.5 \times 12 + 2$$

$$18 + 2$$

$$= 20$$

Hence, this equation is false.

Clearly, '19 + 2 × 6 - 3 = 40' equation is true.

34. Answer: d

Explanation:

The pattern followed is that both the numbers are subtracted and square the value of resultant.

$$27 @ 22 = 25$$

$$\rightarrow (27 - 22) = 5$$

$$(5)^2 = 25$$

$$39 @ 33 = 36$$

$$\rightarrow (39 - 33) = 6$$

$$(6)^2 = 36$$

Similarly;

$$25 @ 22 = ?$$

$$(25 - 22) = 3$$

$$(3)^2 = 9$$

Hence, correct answer is 9.

35. Answer: d

Explanation:

Clearly, the sequence in which the words appear in the dictionary is

3. Grain

5. Graph

4. Grove

1. Guard
2. Guest

Hence, 35412 is the correct answer.

36. Answer: c

Explanation:

The pattern is followed here is,

$$4 + (2 \times 1) = 6$$

$$6 + (2 \times 2) = 10$$

$$10 + (2 \times 4) = 18$$

$$18 + (2 \times 8) = 34$$

$$34 + (2 \times 16) = 66$$

Similarly;

$$66 + (2 \times 32) = 130$$

Hence, '130' is the next term in the series.

37. Answer: b

Explanation:

Logic:

$$D + 2 = F, F + 2 = H, H + 2 = J, J + 2 = L$$

Hence, the next term in the series is 'L'.

38. Answer: b

Explanation:

Clearly, Tornado, Typhoon, Hurricane is the type of storm; while Volcano is a mountain.

Hence, the Volcano is the odd one out.

39. Answer: c

Explanation:

Logic: In all the pairs of numbers difference is divisible by 4 except 3 option (i.e. 63 - 513).

1) $124 - 24 = 100/4 = 25$

2) $215 - 35 = 180/4 = 45$

3) $513 - 63 = 450/4$

4) $63 - 15 = 48/4 = 12$

Hence, option 3 is odd one out.

40. Answer: b

Explanation:

1) $ACF \rightarrow A + 2 = C, C + 3 = F$

2) $JLP \rightarrow J + 2 = L, L + 4 = P$

3) $RTW \rightarrow R + 2 = T, T + 3 = W$

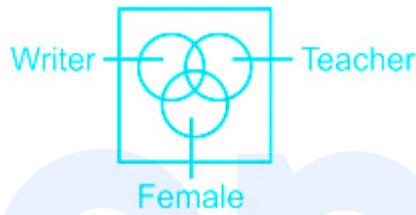
4) $GIL \rightarrow G + 2 = I, I + 3 = L$

Clearly, 'JLP' is odd one out.

41. Answer: c

Explanation:

Some writers may be teachers but not female and some writers can be both teachers and female. Similarly; some writer may be only female but not a teacher.



Hence, Option 3 is the correct answer.

42. Answer: c

Explanation:

Clearly, Mustard is a seed, similarly; Cauliflower is a vegetable.

Hence, Vegetable is the correct answer.

43. Answer: c

Explanation:

$(8)^2 = 64$

Similarly;

$$(11)^2 = 121$$

Hence, 121 is the correct answer.

44. Answer: b

Explanation:

The pattern followed here is,

$$P - 2 = N, O - 2 = M, S - 2 = Q, T - 2 = R$$

Similarly;

$$H - 2 = F, U - 2 = S, N - 2 = L, T - 2 = R$$

Hence, FSLR is the correct answer.

45. Answer: a

Explanation:

1) SIGN → AWARDING → cannot be formed as there is no letter 'S'.

2) WIND → A WAR DIN G → can be formed.

3) WAR → A WAR DING → can be formed.

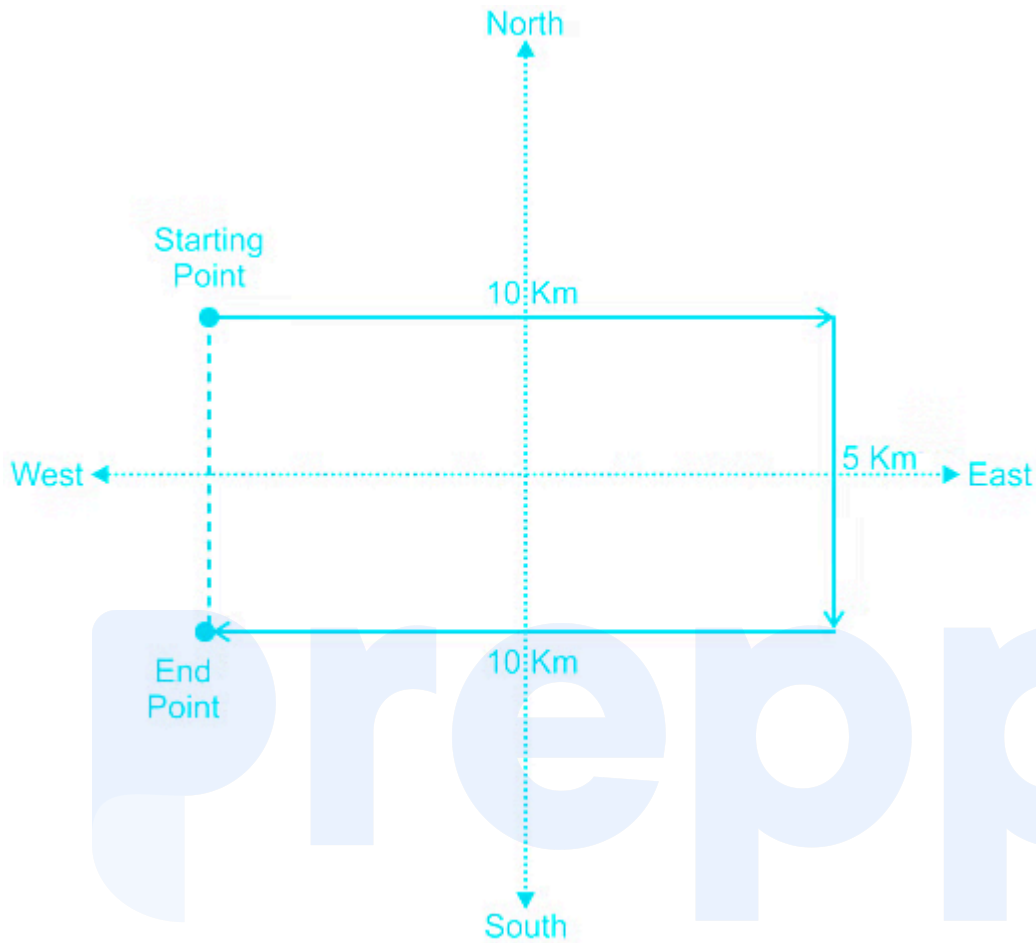
4) AWARD → AWARD ING → can be formed.

Hence, word 'SIGN' cannot be formed.

46. Answer: b

Explanation:

The following diagram shows the displacement of Sanjay,



Clearly, he is 5 km away from his starting point.

47. Answer: b

Explanation:

Total cars: 47

Black car: 18 (from right)

White car: 39 (from right)

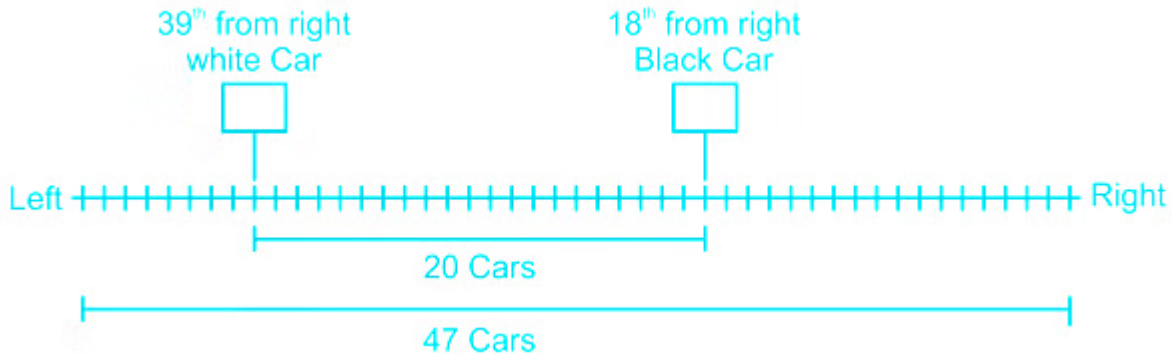
Cars between the Black and the White car:

$$\rightarrow \{\text{Position of black car (from right)} - \text{Position of white car (from right)}\} - 1$$

→ $\{39 - 18\} - 1$

→ $21 - 1 = 20$

Alternate method:



Clearly, 20 cars are there between black and white car.

48. Answer: b

Explanation:

Let us draw the following diagram;



Conclusions:

I. All red are green → not follows.

II. Some coals are green → follows.

Clearly, only conclusion II follows.

49. Answer: a

Explanation:

"DATE" is written as "EBUF"

D	A	T	E
+1	+1	+1	+1
E	B	U	F

Similarly;

"CHIP" is written as

C	H	I	P
+1	+1	+1	+1
D	I	J	Q

Clearly, "CHIP" will be written as "DIJQ".

50. Answer: b

Explanation:

Logic:

"EAR" is written as "23"

$$\begin{array}{ccc} E & A & R & \longrightarrow & 23 \\ \downarrow & \downarrow & \downarrow & & \\ (5 & + & 1 & + & 18) & - & 1 \end{array}$$

"EYE" is written as "34"

$$\begin{array}{ccc} E & Y & E & \longrightarrow & 34 \\ \downarrow & \downarrow & \downarrow & & \\ (5 & + & 25 & + & 5) & - & 1 \end{array}$$

Similarly;

"ARM" will be written as

$$\begin{array}{ccc} A & R & M & \longrightarrow & 31 \\ \downarrow & \downarrow & \downarrow & & \\ (1 & + & 8 & + & 13) & - & 1 \end{array}$$

Clearly, "ARM" is written as 31.

51. Answer: b

Explanation:

⇒ 85: Leaves remainder 1 when divided by both 6 and 7.

⇒ 43: Leaves remainder 1 when divided by 6 and 7.

⇒ 37: Leaves remainder 1 when divided by 6 and 2 when divided by 7.

⇒ 29: Leaves remainder 5 when divided by 6 and 1 when divided by 7.

∴ The least number which leaves 1 as remainder when divided by both 6 and 7 is 43

52. Answer: c

Explanation:

From the options, numerator = 104

\therefore including 104 there are 5 digits after the decimal point \Rightarrow Numerator is divided by a multiple of 10 where there are 5 zeroes.

$\therefore 0.001040 = 104/100000$

53. Answer: a

Explanation:

If 465781P is completely divisible by 12 then it must be divisible by 3 and 4.

Now number is divisible by 3 when the sum of digits is divisible by 3 i.e. $4 + 6 + 5 + 7 + 8 + 1 + P = 31 + P$ must be divisible by 3.

Also the last digit can be 2 or 6, then only number will be divisible by 4.

If $P = 2$, then 33 is divisible by 3 but when $P = 6$, then 37 is not divisible by 3.

$\therefore P = 2$.

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54. Answer: b

Explanation:

Calculations:

$$\sqrt{(269 - 169)}$$

$$\Rightarrow \sqrt{(269 - 169)}$$

$$\Rightarrow \sqrt{(100)}$$

$$\Rightarrow 10$$

55. Answer: d

Explanation:

$$\Rightarrow 296 \times 304$$

$$\Rightarrow (300 - 4) \times (300 + 4) = 300^2 - 4^2$$

$$\Rightarrow 90000 - 16$$

$$\therefore 89984$$

56. Answer: a

Explanation:

$$\Rightarrow (\sqrt{5} - \sqrt{3}) \div (\sqrt{5} + \sqrt{3})$$

$$\Rightarrow [(\sqrt{5} - \sqrt{3})/(\sqrt{5} + \sqrt{3})] / [(\sqrt{5} - \sqrt{3})/(\sqrt{5} - \sqrt{3})]$$

$$\Rightarrow (5 + 3 - 2\sqrt{15})/(5 - 3)$$

$$\Rightarrow (8 - 2\sqrt{15})/2$$

$$\therefore 4 - \sqrt{15}$$

57. Answer: a

Explanation:

Part of tank filled by tap A in 1 hour = $1/10$

Part of tank filled by tap B in 1 hour = $1/12$

Part of tank filled by tap C in 1 hour = $1/15$

⇒ Part of tank filled by all three taps in 1 hour

$$= \frac{1}{10} + \frac{1}{12} + \frac{1}{15} = \frac{15}{60} = \frac{1}{4}$$

∴ The complete tank will be filled in 4 hours.

58. Answer: a

Explanation:

Part of tank filled by pipe P in 1 hour = $\frac{1}{20}$

Part of tank filled by pipe Q in 1 hour = $\frac{1}{30}$

⇒ Tank filled by both pipes in 1 hour = $\frac{1}{20} + \frac{1}{30} = \frac{5}{60} = \frac{1}{12}$

∴ Complete tank will be filled by both in 12 hours.

59. Answer: c

Explanation:

Given:

Ratio of Length and breadth of rectangle = 8 : 3

Perimeter of rectangle = 220cm

Formula used:

Perimeter of rectangle = $2(l + b)$

where $l \rightarrow$ length of the rectangle

$b \rightarrow$ breadth of the rectangle

Calculation:

Let the Length and breadth of the rectangle be $8x$ and $3x$

$$\text{Perimeter} = 220$$

$$\Rightarrow 2(l + b) = 220$$

$$\Rightarrow l + b = 110$$

$$\Rightarrow 8x + 3x = 110$$

$$\Rightarrow 11x = 110$$

$$\Rightarrow x = 110/11 = 10$$

$$\therefore \text{Length} = 8x = 8 \times 10 = 80 \text{ cm}$$

60. Answer: c

Explanation:

Given:

$$\text{Difference} = \text{Rs. } 42$$

Formula Used:

$$SP = MRP \times (1 - D\%/100)$$

where, SP \rightarrow Selling price, MRP \rightarrow Marked price

Calculations:

Let the marked price be 'x'

$$\text{After } 30\% \text{ discount, Selling Price (SP)} = x - 0.3x = 0.7x$$

$$\text{After successive } 20\% \text{ discount, SP} = x \times 0.8 \times 0.8 = 0.64x$$

$$\text{According to question, } 0.7x - 0.64x = 42$$

$$\Rightarrow 0.06x = 42$$

$$\Rightarrow x = 42/0.06 = \text{Rs. } 700$$

\therefore The amount of bill = Rs. 700.

★ Alternate Method

$$\text{Successive discount} = D\% + d\% - (D\% \times d\%)/100$$

$$2 \text{ successive discounts of } 20\% = 20\% + 20\% - (20\% \times 20\%)/100$$

$$\Rightarrow 2 \text{ successive discounts of } 20\% = 36\%$$

$$\text{Now, } (36 - 30)\% = \text{Rs. } 42$$

$$\Rightarrow 100\% = \text{Rs. } 42 \times (100\%/6\%)$$

$$\Rightarrow 100\% = \text{Rs. } 700$$

\therefore The amount of bill = Rs. 700.

61. Answer: c

Explanation:

Let the cost price be x

$$\text{Marked Price} = x + 0.4x = 1.4x$$

$$\text{Selling Price} = 1.4x - 0.3 \times 1.4x = 0.98x$$

\therefore Selling Price is less than Cost Price \rightarrow Loss

$$\therefore \text{Loss \%} = [(\text{Cost Price} - \text{Selling Price}) / \text{Cost Price}] \times 100 = [(x - 0.98x) / x] \times 100 = 2\% \text{ loss}$$

62. Answer: b

Explanation:

Let the incomes of X and Y be $5p$ and $3p$ respectively.

Let the expenditures of X and Y be $9q$ and $5q$ respectively.

Given, $5p - 9q = 1600$ and $3p - 5q = 1600$

$$\Rightarrow 5p - 9q = 3p - 5q$$

$$\Rightarrow 2p = 4q$$

$$\therefore p = 2q$$

Substituting p 's value in any one of the equations

$$\Rightarrow 5 \times 2q - 9q = 1600$$

$$\Rightarrow q = 1600$$

$$\Rightarrow p = 3200$$

$$\therefore \text{Income of X} = 5 \times 3200 = \text{Rs. } 16000$$

63. Answer: a

Explanation:

$$\Rightarrow 6.3a = 1.17b$$

$$\Rightarrow 630a = 117b$$

$$\Rightarrow a/b = 117/630$$

$$\therefore a : b = 13 : 70$$

64. Answer: b

Explanation:

Average of 5 consecutive even numbers = 42

Let the first number be x

$$\Rightarrow [x + (x + 2) + (x + 4) + (x + 6) + (x + 8)]/5 = 42$$

$$\Rightarrow 5x + 20 = 210$$

$$\Rightarrow 5x = 190$$

$$\therefore x = 190/5 = 38$$

$$\therefore \text{Largest even number} = x + 8 = 38 + 8 = 46$$

65. Answer: c

Explanation:

GIVEN:

A to B = 20% Profit for A

B to C = 30% Profit for B

Selling Price for B = Rs 468

FORMULA USED:

Selling Price = Cost Price + Cost Price \times Gain%

CALCULATION:

Let Cost Price of cycle be x

$$\Rightarrow \text{Selling Price by A} = x + 0.2x = 1.2x$$

$$\Rightarrow \text{Selling Price by B} = 1.2x + 0.3 \times 1.2x = 1.56x$$

$$\Rightarrow 1.56x = 468$$

$$\therefore x = 468/1.56 = \text{Rs. } 300$$

66. Answer: c

Explanation:

Given:

The selling price of the article = Rs 360

Loss = 10%

Formula used:

$$\text{C.P} = \text{S.P} \times 100 / (100 - \text{L}\%)$$

Where,

C.P = cost price

S.P = selling price

L% = Loss percent

Calculation:

$$\text{C.P} = \text{S.P} \times 100 / (100 - \text{L}\%)$$

$$\Rightarrow 360 \times 100 / (100 - 10)$$

$$\Rightarrow 360 \times 100 / 90$$

$$\Rightarrow 400$$

\therefore The cost price of the article is Rs 400

67. Answer: d

Explanation:

Let the number be x

After increasing by 20%, $x' = x + 0.2x = 1.2x$

After decreasing by 10%, $x'' = 1.2x - 0.1 \times 1.2x = 1.08x$

Clearly it is a % increase.

\Rightarrow % increase = $[(1.08x - x)/x] \times 100 = 8\%$ increase

68. Answer: a

Explanation:

$D = 400$

$\Rightarrow C = 400 + 0.3 \times 400 = 520$ (30% more than D)

$\Rightarrow B = 520 - 0.1 \times 520 = 468$ (10% less than C)

$\therefore A = 468 - 0.2 \times 468 = 374.4$ (20% less than B)

69. Answer: a

Explanation:

Let the speed of the stream be u km/hr

\Rightarrow Speed upstream = $8 - u$

\Rightarrow Distance = 52 km

$$\Rightarrow \text{Time} = 8 \text{ hours}$$

$$\Rightarrow \text{Speed} = \text{Distance}/\text{time}$$

$$\Rightarrow 8 - u = 52/8$$

$$\Rightarrow 64 - 8u = 52$$

$$\Rightarrow 8u = 12$$

$$\therefore u = 12/8 = 1.5 \text{ km/hr}$$

70. Answer: b

Explanation:

$$\text{Speed of the train} = 45 \text{ km/hr} = (45 \times 5/18) = 12.5 \text{ m/s}$$

$$\text{Length of train} = 810 \text{ m}$$

$$\therefore \text{Time taken} = \text{Distance}/\text{Length} = 810/12.5 = 64.8 \text{ sec}$$

71. Answer: b

Explanation:

Let the time in years be 't'

$$\text{Simple interest} = (P \times r \times t)/100,$$

where

P = principal,

t = time period and

r = rate of interest.

$$\Rightarrow 4500 = (9000 \times 5 \times t)/100$$

$$\Rightarrow 4500 = 450t$$

$$\therefore t = 4500/450 = 10 \text{ years}$$

72. Answer: c

Explanation:

Cars manufactured in December = 130

Cars manufactured in July = 50

$$\therefore \% \text{ change} = [(130 - 50)/50] \times 100 = 160\%$$

73. Answer: d

Explanation:

Maximum cars produced in October = 200

Minimum cars produced in July = 50

$$\Rightarrow \text{Difference} = 200 - 50 = 150$$

Now, Cars produced in September = 75

$$\Rightarrow \text{Required \%} = x/100 \times 75 = 150$$

$$x = 200\%$$

74. Answer: c

Explanation:

⇒ Average number of cars produced = $(50 + 100 + 75 + 150 + 200)/5 = 115$

∴ Average number of cars produced between July and November = 115

75. Answer: b

Explanation:

Cars produced in July = 50000

Cars produced in August = 100000

Cars produced in September = 75000

Cars produced in October = 200000

Cars produced in November = 150000

Cars produced in December = 130000

⇒ Clearly 75000 is not an exact multiple of 10000.

∴ Except for September in all other months cars are produced in multiples of 10000
i.e. 5 months

76. Answer: c

Explanation:

- A particular currency can be made acceptable only if the government recognizes as a 'Legal Tender' as per the RBI Act of 1934 and the Coinage Act, 2011 of India.
- In India, the banknotes are an unlimited legal tender.
- The coins are only a limited legal tender in India which means that the acceptor can refuse to accept coins after a particular limit as per his or her convenience.

77. Answer: b

Explanation:

The literacy rate is the total percentage of the population of an area at a particular time aged seven years or above who can read and write with understanding.

As per 2011 census, the state of Kerala has the highest literacy rate at 94.00% and Bihar with lowest literacy rates at 61.80%.

As per 2011 census, among Union Territories, Lakshadweep has the highest literacy rate of 91.85% and Dadra & Nagar Haveli has the lowest literacy rate at 76.24%.

78. Answer: a

Explanation:

Part I	The Union and its territories
Part II	Citizenship
Part III	Fundamental Rights
Part IV	Directive Principles of State Policy

79. Answer: b

Explanation:

Democracy, in modern usage, is a system of government in which the citizens exercise power directly or elect representatives from among themselves to form a governing body, such as a legislature

80. Answer: a

Explanation:

The Rigveda is an ancient Indian collection of Vedic Sanskrit hymns.

- It is one of the four canonical sacred texts of Hinduism known as the Vedas.
- The text is a collection of 1,028 hymns and 10,600 verses, organized into ten books called mandalas.
- Samaveda mentions about music.
- It is also called the book of melodies.
- It is a part of four Vedas namely Rig Veda, Sama Veda, Yajur Veda, Atharvana Veda.
- It's Upaveda Gandharva Veda.

Rig Veda	Book of Hymns of Praise
Yajur Veda	Book of Scarifies
Atharvana Veda	Book of Magical Charms

81. Answer: b

Explanation:

- **Al-Biruni** was an Iranian scholar and polymath. He was from Khwarezm — a region that encompasses modern-day western Uzbekistan, and northern Turkmenistan.
- The scholar entrusted by Sultan Mahmud of **Ghazni** to write an account of the subcontinent.
- Al-Bīrūnī *Kitab al-Hind* is a book written by Al-Beruni and is an important source of Historians.

82. Answer: b

Explanation:

A rotation is a circular movement of an object around a center of rotation. A three-dimensional object can always be rotated around an infinite number of imaginary lines called rotation axes.

83. Answer: b

Explanation:

★ Key Points

- Presently India is the **seventh-largest country** in respect of area.
- It comprises an area with a total area of **3,287,469 square kilometers**.
- It lies in the north of the equator between **8°04' to 37°06' north latitude and 68°07' to 97°25' east longitude**.
- India is part of the continent of Asia.
- Most of India forms a peninsula, which flows into the sea.
- The **south-east** is bordered by the **Bay of Bengal**, and the **south-west** is bordered by the **Arabian Sea**.
- The Himalayas - the highest mountain range in the world - grow in the north of the country.

- India's terrain varies widely, from the **Thar Desert** in the west to the forests in the northeast.
 - A fertile region called the **Gangetic Plain** covers most of northern India.
 - **23%** of the country is forested, making India's forests the **9th largest** in the world.
 - It borders 7 countries: **Bangladesh, Bhutan, China, Burma, Nepal, Pakistan, and Afghanistan.**
 - The highest point is **Kanchenjunga at 8,598 meters** . It is the **third** highest mountain in the world.
-

84. Answer: c

Explanation:

- An abiotic component is a non-living component in the environment.
 - These components have a major influence on a living organism.
 - Abiotic components are water, sunlight, temperature, fire, heat, sunlight, oxygen, climate.
 - Water is an only abiotic component from the above-mentioned components.
-

85. Answer: a

Explanation:

Incisors are the four middle teeth on the upper and lower jaws.

They are used for biting and cutting food.

86. Answer: a

Explanation:

- Hemoglobin is the protein inside red blood cells that carries oxygen. Red blood cells also remove carbon dioxide from your body, transporting it to the lungs for you to exhale.
 - In high altitudes, the body is in a state of relative hypoxia, due to the thin air, and less oxygen availability. Thus erythropoietin is continuously secreted, and the number of RBCs increases.
-

87. Answer: b

Explanation:

A body is said to be in uniform motion if it travels equal distances in equal intervals of time. A body is said to have non-uniform motion if it travels unequal distances in equal intervals of time. These concepts are based on Newton's three laws of motion.

88. Answer: c

Explanation:

If you pass current through a straight wire, a **magnetic field** is formed around the wire in the form of circular rings. On the other hand, you're passing a current through a circular spring-like thing called a solenoid, a magnetic field is produced along its axis.

89. Answer: b

Explanation:

Input: Any information or data that is sent to a computer for processing is considered as input.

Output: Data generated by a computer is referred to as output. This includes data produced at a software level, such as the result of a calculation, or at a physical level, such as a printed document.

Router: A router is a networking device that forwards data packets between computer networks. Routers perform the traffic directing functions on the Internet.

Modem: A modem is a hardware device that converts data so that it can be transmitted from computer to computer over telephone wires.

90. Answer: b

Explanation:

- Brass is a metallic alloy that is made of copper and zinc. The proportions of zinc and copper can vary to create different types of brass alloys with varying mechanical and electrical properties.
- CO_2 and NO_2 are stable compounds formed after going through the process of chemical bonding.
- Glucose ($\text{C}_6\text{H}_{12}\text{O}_6$) is an organic compound made up of the elements carbon, hydrogen, and oxygen in a fixed amount. It is a pure substance, and not a mixture.

91. Answer: c

Explanation:

- A double bond in chemistry is a chemical bond between two chemical elements involving four bonding electrons instead of the usual two.
 - The most common double bond, that is between two carbon atoms, can be found in alkenes.
 - Many types of double bonds exist between two different elements.
-

92. **Answer: b**

Explanation:

An autotroph is an organism that can produce its own food using light, water, carbon dioxide, or other chemicals. Because autotrophs produce their own food, they are sometimes called producers. Most autotrophs use a process called photosynthesis to make their food.

93. **Answer: a**

Explanation:

- National Pension Scheme, also known as NPS, is a voluntary defined contribution pension system in India.
 - Administered and regulated by the Pension Fund Regulatory and Development Authority (PFRDA).
 - Eligibility is between 18 & before 65 years of age.
-

94. **Answer: a**

Explanation:

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Invention	Inventor	Nationality
Revolver	Samuel Colt	American
Refrigerator	Oliver Evans	American
Safety Razor	King C. Gillete	American
Penicillin	Alexander Fleming	Scottish

95. **Answer: c**

Explanation:

- Shooting is the act or process of discharging a projectile from a ranged weapon such as a gun, slingshot, crossbow, or bow.
- Bullseye shooting is a term used to describe shooting sports disciplines where the objective is to score points by hitting around shooting the target as close to the center as possible.
- Bullet path, Calibre are other terms used in Shooting.

96. **Answer: b**

Explanation:

Patola is a double ikat woven sari, usually made from silk, made in Patan, Gujarat, India.

They are very expensive, once worn only by those belonging to royal and aristocratic families.

97. Answer: d

Explanation:

- The Arjuna Awards are given by the Ministry of Youth Affairs and Sports, Government of India to recognize outstanding achievement in sports.
 - It started in the year 1961 and carries a cash prize of ₹ 5 lakhs a bronze statue of Arjuna and a scroll.
 - Anup Kumar is an Indian professional Kabaddi player.
 - He was member of the India national kabaddi team that won Asian gold medals in 2010 and 2014.
-

98. Answer: a

Explanation:

- **Munshi Premchand** was an Indian writer famous for his modern Hindi-Urdu literature.
 - Godan is a Hindi novel by Munshi Premchand, translated into English as The Gift of a Cow.
 - It was first published in 1936 and is considered one of the greatest Hindi novels of modern Indian literature
 - The real name of Munshi Premchand was - Dhanpat Rai Shrivastava.
-

99. Answer: a

Explanation:

- The eleventh edition of the Asia–Europe Meeting (ASEM) Summit on 16 July 2016 issued Ulaanbaatar Declaration.
- The Ulaanbaatar Declaration focuses on the fight against terrorism and greater connectivity between Asia and Europe. It has reaffirmed ASEM's commitment to the greater partnership through informal political dialogue and initiatives in economic and socio-cultural fields

100. **Answer: a**

Explanation:

The Integrated Check Post (ICP), being constructed at Akhaura near Agartala to facilitate trade by land route between Tripura and the adjacent areas of Bangladesh, is yet to be commissioned.

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