



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



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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 (20-Mar-2018) (Shift 3)

Total Time: 1 Hour

Total Marks: 200

Instructions

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

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

English Language

1. In the following question, some 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)

Of all the forts (1)/ that I've visit in India, (2)/ Daulatabad Fort is my favourite. (3)/ No error (4)

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

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

The Bench will also have to say (1)/ whether the laws are really at consonance with (2)/ the basic tenets of the 1960 Act. (3)/ No error (4)

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

3. 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 paragraph _____ number of sentences grouped together.

- a. Could be a
- b. Was
- c. Would be
- d. Is a

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

What would you have done if you _____ the band?

- a. Was in
- b. Is in
- c. Will be in
- d. Were in

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

Carouse

- a. Quaff
- b. Grieve
- c. Overlook
- d. Ignore

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

Clement

- a. Irritate
- b. Cold
- c. Clingy
- d. Mild

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

Artifice

- a. Truthfulness
- b. Trick
- c. Skill
- d. Scheme

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

Extant

- a. Extinct
- b. Present

c. Immediate

d. Around

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

(+2, -0.5)

Sociologists believe

P: that the reason why honour killings

Q: of the continued rigidity of the caste system

R: continue to take place is because

a. PRQ

b. RQP

c. QRP

d. PQR

10. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

(+2, -0.5)

The mechanic uses old spare parts for the car.

a. Old spare parts were used for the car by the mechanic.

b. Old spare parts was used for the car by the mechanic.

c. Old spare parts is being used for the car by the mechanic.

d. Old spare parts are used for the car by the mechanic.

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

The visitor enquired, "When is the next train?"

- a. The visitor enquired about the next train.
- b. The visitor enquired when the next train was.
- c. The visitor asked when is the next train.
- d. The visitor was interested in the next train.

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

- a. Acquittied
- b. Acquitted
- c. Ecquited
- d. Acqiuteed

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)

Left to itself, then, attention _____ obeys natural laws and follows the line of least resistance. _____ far the larger portion of our attention is of this type. Thought often runs on hour after hour when we are neither conscious of effort _____ struggle to compel us to cease thinking about this thing and begin thinking about _____. Indeed, it may be doubted _____ this is not the

case with some persons for days at a time, instead of hours. The things that present themselves to the mind are the things which occupy it; the character of the thought is determined by the character of our interests.

Left to itself, then, attention _____ obeys natural laws

- a. Simple
- b. Simply
- c. Simplification
- d. Simplicity

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

Left to itself, then, attention _____ obeys natural laws and follows the line of least resistance. _____ far the larger portion of our attention is of this type. Thought often runs on hour after hour when we are neither conscious of effort _____ struggle to compel us to cease thinking about this thing and begin thinking about _____. Indeed, it may be doubted _____ this is not the case with some persons for days at a time, instead of hours. The things that present themselves to the mind are the things which occupy it; the character of the thought is determined by the character of our interests.

least resistance. _____ far the larger portion

- a. By
- b. With
- c. Along
- d. Such

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

Left to itself, then, attention _____ obeys natural laws and follows the line of least resistance. _____ far the larger portion of our attention is of this type. Thought often runs on hour after hour when we are neither conscious of effort _____ struggle to compel us to cease thinking about this thing and begin thinking about _____. Indeed, it may be doubted _____ this is not the case with some persons for days at a time, instead of hours. The things that present themselves to the mind are the things which occupy it; the character of the thought is determined by the character of our interests.

conscious of effort _____ struggle to compel

- a. No
- b. Not
- c. None
- d. Nor

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

Left to itself, then, attention _____ obeys natural laws and follows the line of least resistance. _____ far the larger portion of our attention is of this type. Thought often runs on hour after hour when we are neither conscious of effort _____ struggle to compel us to cease thinking about this thing and begin thinking about _____. Indeed, it may be doubted _____ this is not the case with some persons for days at a time, instead of hours. The things

that present themselves to the mind are the things which occupy it; the character of the thought is determined by the character of our interests.

thinking about _____. Indeed,

- a. This
- b. These
- c. Them
- d. That

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

Left to itself, then, attention _____ obeys natural laws and follows the line of least resistance. _____ far the larger portion of our attention is of this type. Thought often runs on hour after hour when we are neither conscious of effort _____ struggle to compel us to cease thinking about this thing and begin thinking about _____. Indeed, it may be doubted _____ this is not the case with some persons for days at a time, instead of hours. The things that present themselves to the mind are the things which occupy it; the character of the thought is determined by the character of our interests.

be doubted _____ this is not the case

- a. Weather
- b. Wither
- c. Wether
- d. Whether

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

Ring-fencing

- a. The place where the sport of fencing is played by two opponents.
- b. Doubly protecting your assets.
- c. Guarantee that funds allocated for a particular purpose will not be spent on anything else.
- d. Be ready to fight for what is your right.

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

Keep your chin up

- a. Behave arrogantly in front of elders.
- b. Keep your self respect at all times.
- c. Remain cheerful in difficult circumstances.
- d. Pretend to be good when you have an evil plan.

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

Be deprived of property or a right or privilege as a penalty for wrongdoing

- a. Forfeited
- b. Endow

c. Render

d. Assign

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

Absolve someone from blame for a fault or wrongdoing

a. Indict

b. Exonerate

c. Allege

d. Slur

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

He (has to develop) self-confidence, so leave him alone.

a. Have to develop

b. Are to develop

c. Has to be developed

d. No improvement

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

The music (soothe) me and I stroll on happily.

- a. Soothing
- b. Soothes
- c. Had soothed
- d. No improvement

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

There is an

A: a telephonic talk could never replicate

B: instant rapport in the written

C: communication which the printed message or

- a. BAC
- b. ACB
- c. ABC
- d. BCA

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

- a. Bifurckated
- b. Biffurcated

c. Biffurckated

d. Bifurcated

Prepp

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General Intelligence

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

Saw : Carpenter :: ? : ?

- a. Pen : Soldier
- b. Sword : Sculptor
- c. Scalpel : Plough
- d. Axe : Woodcutter

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

69 : 87 :: ? : ?

- a. 77 : 97
- b. 117 : 135
- c. 95 : 107
- d. 121 : 145

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

SQM : RPL :: ? : ?

- a. KCN : JBO

- b.** DQA : CPB
 - c.** BSU : ART
 - d.** PYC : OXD
-

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

- a.** Red
 - b.** Green
 - c.** White
 - d.** Painting
-

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 pairs. **(+2, -0.5)**

- a.** 16 - 32
 - b.** 24 - 48
 - c.** 36 - 72
 - d.** 32 - 66
-

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

- a.** GEC

- b. NLJ
 - c. OMK
 - d. YWN
-

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

1. Clump 2. Clown 3. Climax 4. Clumsy 5. Climb

- a. 32541
 - b. 41523
 - c. 35214
 - d. 45213
-

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

2, 3, 4, 9, 16, 29, 54, ?

- a. 109
 - b. 99
 - c. 87
 - d. 117
-

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)

E, I, M, ?, U, Y

- a. Q
- b. R
- c. T
- d. S

35. Present age of R and S are in the ratio of 3 : 2 respectively. If the present age of H is 117 years and R's present age is $\frac{4}{13}$ of H's present age, then after how many years the ages of R and S would be in the ratio of 15 : 11? (+2, -0.5)

- a. 9
- b. 6
- c. 7
- d. 8

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

Repressible

- a. Repair
- b. Hen
- c. Rise
- d. Ripe

37. In a certain code language, " FUMIC " is written as " 6211393 " and " STEAM " is written as " 19205113 ". How is " PROP " written in that code language? (+2, -0.5)

- a. 714812
- b. 6159134
- c. 16181516
- d. 1271418

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

$$20 \div 12 - 30 + 10 \times 10 = ?$$

- a. 8
- b. 25
- c. 14
- d. 21

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

$$32 \div 16 - 5 \times 8 + 2 = 13$$

- a. + and ÷
- b. + and ×
- c. and +

d. $\div$ and $\times$

40. If $6@16 = 11$, $2@14 = 8$ and $8@8 = 8$, then find the value of $10@18 = ?$ (+2, -0.5)

a. 4

b. 6

c. 12

d. 14

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

BAAAAABA, BAAAABAA, BAAABAAA, BAABAAAA, BABAAAAA, -----.

a. BAAAAAAB

b. BAAAAABA

c. BBAAAAAA

d. BAAAABAA

42. An old man starts his daily walking routine. He walks 2 km East, then turns North and walks 1 km, then turns West and walks 2 km, then turns to his right and walks 1.5 kms. Where is he now with respect to the starting position? (+2, -0.5)

a. 0.5 km North

b. 2.5 km South

c. 0.5 km South

d. 2.5 km North

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: No taps are nozzles

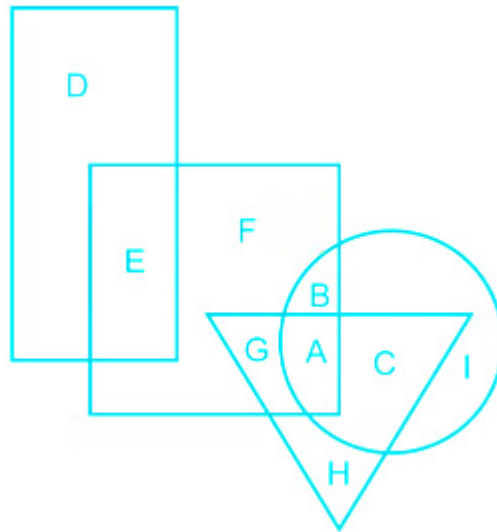
Statement II: Some valves are taps

Conclusion I: All nozzles are valves

Conclusion II: All valves are nozzles

- 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 Hairstylists, circle represents Racers, triangle represents Divers and square represents Fathers. Which set of letters represents fathers who are Divers? (+2, -0.5)



- a. BA
- b. AC
- c. HA
- d. GA

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)

RFT, QDQ, PBN, OZK, ?

- a. LVF
- b. KUE
- c. MWG
- d. NXH

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

52, 41, 32, 25, ?, 17

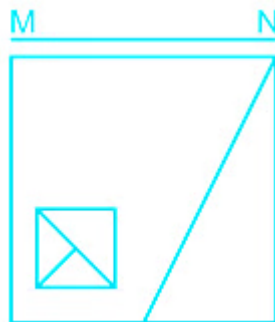
- a. 21
- b. 20
- c. 18
- d. 19

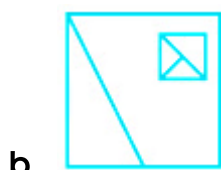
47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (+2, -0.5)

- a. (6, 19, 30)
- b. (9, 29, 45)
- c. (11, 34, 55)
- d. (13, 40, 65)

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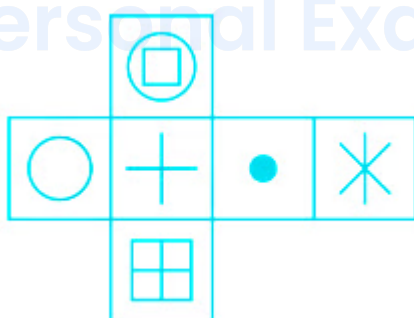
48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure? (+2, -0.5)

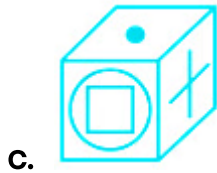




49. Which of the following cube in the answer figures cannot be made based on the unfolded cube in the question figure? (+2, -0.5)

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50. A word is represented by only one set of numbers as given in any one of the alternatives. The set of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix - I are numbered from 0 to 4 and that of Matrix - II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'C' can be represented by 23, 40 etc and 'X' can be represented by 66, 96 etc. Similarly, you have to identify the set for the word 'DUNG'.

(+2,
-0.5)

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

a. 31, 76, 24, 96

b. 20, 59, 41, 88

c. 33, 68, 31, 75

d. 42, 57, 75, 11

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54. The two equations $x - 4y = 0$ and $4x + 3y = 19$ have a solution (a, b) . Find the value of $\frac{ab}{a + 4b}$. (+2, -0.5)

- a. $1/4$
- b. $1/2$
- c. 1
- d. 23

55. Which of the following statement is **CORRECT** about a triangle? (+2, -0.5)

- a. If the triangles are congruent then their area will be equal.
- b. If the areas of two similar triangles are equal then the triangle is congruent.
- c. Two congruent triangles are always similar to each other.
- d. All options are correct

56. Classify the triangle as a type of triangle if the sides of the triangle are 6, 12 and 13 units. (+2, -0.5)

- a. Right angled triangle
- b. Obtuse angled triangle
- c. Acute angled triangle
- d. None of these

57. Weight of Ayush and Abhishek are in the ratio of 6 : 11. Abhishek's weight increases by 25% and total weight of Ayush and Abhishek both increases by 40%. If total weight becomes 119 kg, then what is the weight (in kg) of Ayush after the increment? (+2, -0.5)

- a. 45.5
- b. 30
- c. 50.25
- d. 47.75

58. A box consist of 5 rupees, 2 rupees and 1 rupee coins and their value are in the ratio of 15 : 4 : 2 respectively. If there are total 112 coins, then how many 2 rupees coins are there in the box? (+2, -0.5)

- a. 32
- b. 48
- c. 64
- d. 24

59. A mixture contains liquid A and liquid B in the ratio of 5 : 4. If 2 litres of liquid B is added to it, then the ratio of liquid A and liquid B becomes 7 : 6. What is the quantity (in litres) of liquid A in the mixture? (+2, -0.5)

- a. 32
- b. 35
- c. 40

d. 42

60. Average of 10 numbers is 14. If each number is multiplied by 6, then what will be the new average? (+2, -0.5)

a. 70

b. 84

c. 56

d. 92

61. The simple interest on a sum is $\frac{5}{9}$ of the principal for 25 years. What is the rate (in percentage) of interest per annum? (+2, -0.5)

a. $\frac{25}{9}$

b. $\frac{9}{2}$

c. $\frac{20}{9}$

d. $\frac{15}{4}$

62. If selling price and cost price of an article are Rs. 684.25 and Rs. 595 respectively, then what is the profit percentage? (+2, -0.5)

a. 15

b. 10

c. 12.5

d. 20

63. The marked price of a book is Rs. 4200. The shopkeeper gives two successive discounts of 25% and $y\%$ to the customer. If the customer pays Rs. 2898 for the book, then what is the value (in percentage) of y ? (+2, -0.5)

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

64. What is the value of $[(\sqrt{529}) + (\sqrt{5.29}) + (\sqrt{0.0529})]$? (+2, -0.5)

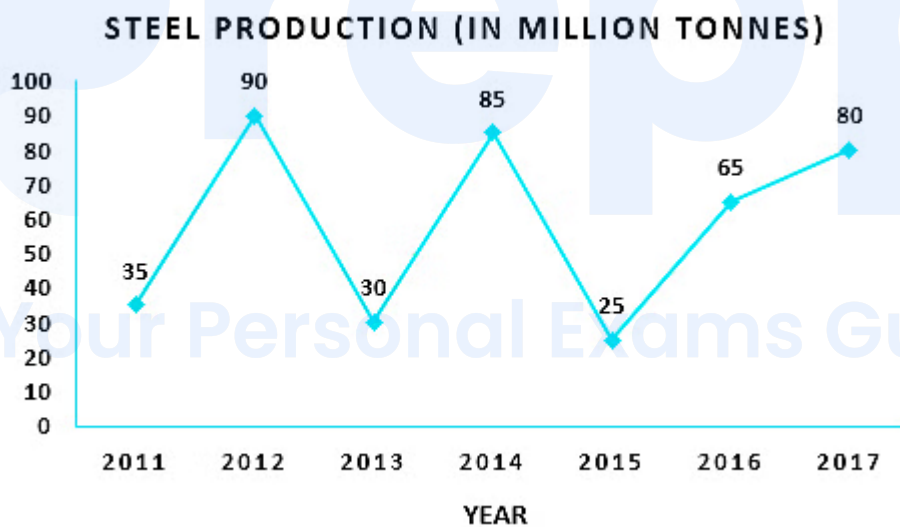
- a. 25.323
- b. 25.53
- c. 23.253
- d. 23.53

65. P and Q undertook to do a work for Rs. 7200. P alone could do it in 20 days and Q alone in 12 days. With the assistance of R they finished the work in 5 days. What is the share (in Rs) of R? (+2, -0.5)

- a. 1800
 - b. 2400
 - c. 2800
 - d. 2600
-

66. A boat covers 143 km upstream in 13 hours and the same distance downstream in 11 hours. What is the speed (in km/hr) of the boat in still water? (+2, -0.5)
- 10
 - 12
 - 14
 - 8

67. **Direction:** The line graph shows the production of steel of a certain country. Study the diagram and answer the following questions. (+2, -0.5)



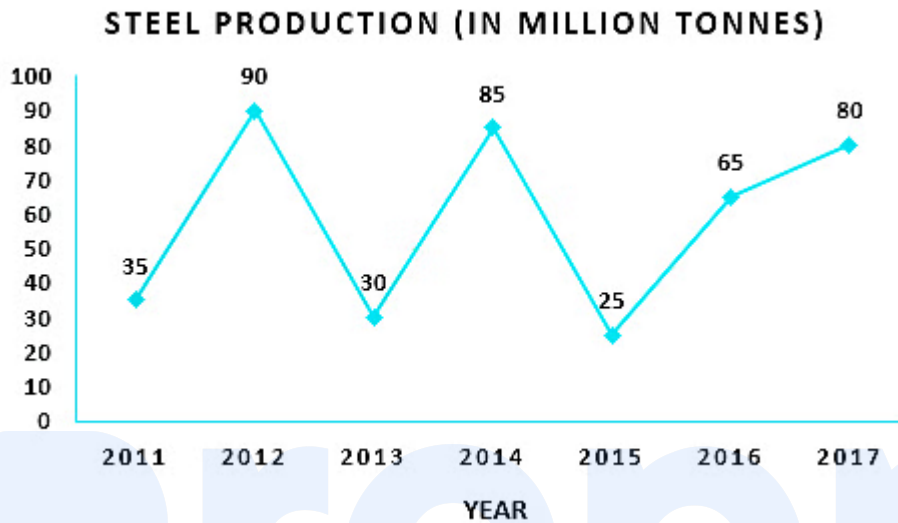
In which year was the steel production lesser than that of the previous year?

- 2013
- 2014
- 2012

d. 2016

68. **Direction:** The line graph shows the production of steel of a certain country. Study the diagram and answer the following questions.

(+2, -0.5)

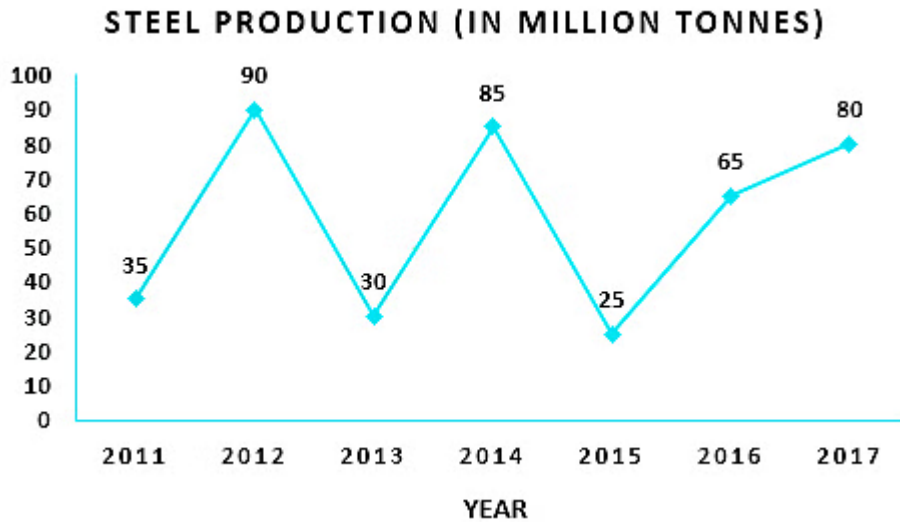


What was the difference (in million tonnes) in the steel production between the years 2011 and 2015?

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

69. **Direction:** The line graph shows the production of steel of a certain country. Study the diagram and answer the following questions.

(+2, -0.5)

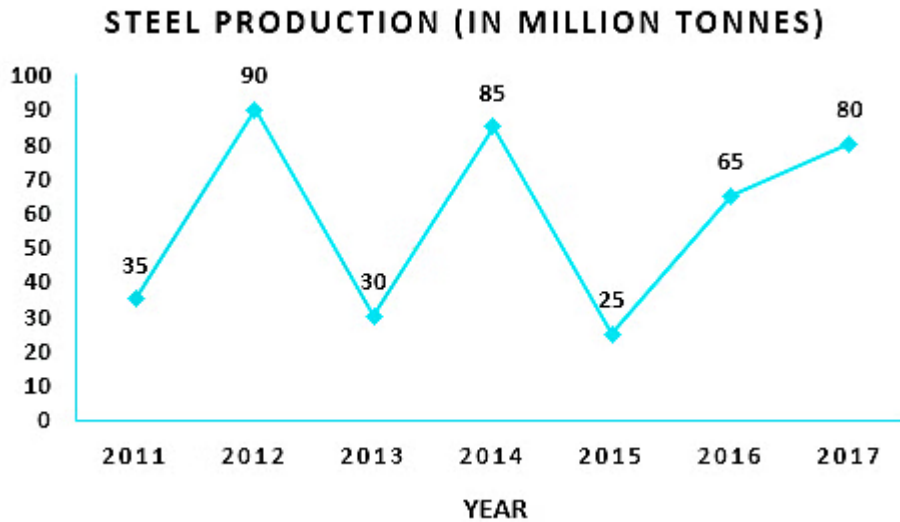


By what percent the steel production in 2012 was greater than that of 2015?

- a. 80%
- b. 73.6%
- c. 200%
- d. 260%

70. **Direction:** The line graph shows the production of steel of a certain country. Study the diagram and answer the following questions.

(+2, -0.5)



If 1 tonne of steel costs Rs. 30,000, then what was the cost (in Rs billion) of the steel production in the year 2017?

- a. 240
- b. 3000
- c. 2400
- d. 300

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71. The perimeter of a square is 26 cm. Find its area (in cm^2). (+2, -0.5)

- a. 42.25
- b. 84.5
- c. 39.25
- d. 78.5

72. The area of a circle is 616 cm^2 . Find its radius (in cm). (+2, -0.5)

- a. 14
- b. 28
- c. 11
- d. 22

73. Find the surface area (in cm^2) of a sphere whose diameter is 14 cm. (+2, -0.5)

- a. 616
- b. 910
- c. 511
- d. 1025

74. What is the value of $(1/\sqrt{3} - \sin 45^\circ)$? (+2, -0.5)

- a. $1/2\sqrt{3}$
- b. $(\sqrt{2} - \sqrt{3})/\sqrt{6}$
- c. $1 - \sqrt{2}$
- d. $(4 - \sqrt{3})/2$

75. In $\triangle PQR$ measure of angle Q is 90° . If $\cot P = 8/15$, and $PQ = 4$ cm, then what (+2, -0.5)
is the length (in cm) of side PR?

- a. 8.5
- b. 7.5

c. 5

d. 4

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General Awareness

76. Voting rights in the IMF are distributed on the basis of _____. (+2, -0.5)

- a. one country one vote
- b. proportion to the share of the income of the country in the world income
- c. proportion of contributions given by each country
- d. proportion to quota allotted to countries from time to the time

77. The purpose of land reforms was to achieve _____. (+2, -0.5)

- a. increase in production
- b. increase the purchasing power of the rural population
- c. ensure distributive justice with economic growth
- d. All options are correct.

78. What is called the residual eroded mounds sporadically located in Karst Plains? (+2, -0.5)

- a. Monadnock
- b. Pediplain
- c. Hum
- d. No option is correct.

79. Which of the following rivers of peninsular India is distinct from the remaining three? (+2, -0.5)

- a. Narmada
 - b. Cauvery
 - c. Krishna
 - d. Godavari
-

80. Couple burial was found in which of the following Harappan sites? (+2, -0.5)

- a. Mohenjodaro
 - b. Harappa
 - c. Chanhudado
 - d. Lothal
-

81. The Indian Council of 1892 Act was based on which plan? (+2, -0.5)

- a. Northbrook Plan
 - b. Dufferin Plan
 - c. Ripon Plan
 - d. Gladstone Plan
-

82. In which area did Nandalal Bose earn fame? (+2, -0.5)

- a. Painting
 - b. Folk Art
 - c. Dance
 - d. Politics
-

83. Which country in October 2017 announced to allow women into three sports stadium for the first time from 2018? (+2, -0.5)

- a. UAE
 - b. Qatar
 - c. Saudi Arabia
 - d. Kuwait
-

84. In January 2018, Aziz Ansari became the first Indian-American and first Asian to win a Golden Globe award for which comedy series? (+2, -0.5)

- a. Parent Trap
 - b. Running North
 - c. Master of None
 - d. Gone with the wind
-

85. Who among the following is the author of Sri Lanka's national anthem? (+2, -0.5)

- a. Ananda Samarkand

- b. Kumaratunga Munidasa
 - c. Siri Gunasinghe
 - d. P. B. Jayasekara
-

86. Which of the following group does NOT follow Newlands Law of Octaves? (+2, -0.5)

- a. Li, Na
 - b. Be, Mg
 - c. C, Si
 - d. Mn, Hg
-

87. Which of the following is an example of the compound? (+2, -0.5)

- a. Manganese
 - b. Air
 - c. Ozone
 - d. Ammonia gas
-

88. Which Schedule of Indian Constitution was added by 73rd Constitutional Amendment Act? (+2, -0.5)

- a. Eight Schedule
- b. Ninth Schedule
- c. Tenth Schedule

d. Eleventh Schedule

89. In India, which among the following can be amended by Special Majority of Parliament and Consent of States? **(+2, -0.5)**

- I. Election of President and its manner
- II. Any of the lists in Seventh Schedule
- III. Amendment in Fundamental Right

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

90. Blood is a connective tissue embedded in which type of intercellular matrix? **(+2, -0.5)**

- a.** Jelly-like
 - b.** Fluid
 - c.** Dense
 - d.** No option is correct
-

91. Slow-growing large colored patches on the bark of trees are the examples of symbiotic life forms called _____. **(+2, -0.5)**

- a.** Aphids

- b.** Egrets
 - c.** Lichens
 - d.** Shrimps
-

92. On 17 October 2017, who launched the online Campaign 'women for women: #IAmThatWomen' to end gender bias? **(+2, -0.5)**

- a.** Nirmala Sitharan
 - b.** Sushma Swaraj
 - c.** Sonia Gandhi
 - d.** Maneka Gandhi
-

93. India was declared free from which infective eye disorder on 9 December 2017? **(+2, -0.5)**

- a.** Blepharitis
 - b.** Chalazia
 - c.** Pinkeye
 - d.** Trachoma
-

94. On 25 October 2017, the government announced a recapitalization plan for state-owned banks. How much amount was announced for Banks' recapitalization? **(+2, -0.5)**

- a.** Rs. 3.11 lakh crore

- b. Rs. 5.1 lakh crore
 - c. Rs. 2.11 lakh crore
 - d. Rs. 7 lakh crore
-

95. On 22 November 2017, the cabinet approved the expansion of "Beti Bacho Beti Padhao" for a Pan India coverage in how many districts of the country? (+2, -0.5)

- a. 640
 - b. 820
 - c. 1000
 - d. 1100
-

96. What is the heat generated (in J) in a heating element of resistance $800\ \Omega$ when a current of 0.2 A passes through it for 40 seconds? (+2, -0.5)

- a. 6400
 - b. 1280
 - c. 640
 - d. 3200
-

97. When an object is thrown vertically upwards, at its maximum height its -----

- a. potential energy is zero

- b. momentum is maximum
 - c. kinetic energy is zero
 - d. gravitational force is maximum
-

98. _____ contributes towards global warming so it is called a greenhouse gas. (+2, -0.5)

- a. Oxygen
 - b. Nitrogen
 - c. Hydrogen
 - d. Methane
-

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

- A) United Arab Emirates hosted the Tennis 2017 ATP World Tour Finals.
 - B) In 2017, Per Mertesacker captained the Premier League team Manchester United.
 - C) In 2017, Stephen Curry played for the NBA team Golden State Warriors.
- a. Only A
 - b. Only B
 - c. Only C
 - d. A, B and C
-

100. In Microsoft Excel, Ctrl + right arrow key leads to _____ cell movement on a spreadsheet. (+2, -0.5)

- a. End of column
- b. End of row
- c. One cell Left
- d. One cell right

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Answers

1. Answer: b

Explanation:

The correct answer is 2.

★ Key Points

Reading the above sentence we find that:

- The error lies in the second part of the sentence.
- From the context of the sentence, we can infer that the person has already visited the places.
- Therefore the given sentence is in the **past tense**.
- Thus the verb **visit** in the second part is wrong and should be changed to **visited**.
- The verb **visited** makes the sentence grammatically correct.

Therefore from the above points we can conclude that the correct answer is **2** as the error lies in the second part.

The correct sentence will be: *Of all the forts that I've **visited** in India, Daulatabad Fort is my favourite.*

2. Answer: b

Explanation:

The correct answer is 2.

★ Key Points

Reading the above sentence we find that:

Whether is used incorrectly in the given sentence.

★ Important Points

- **Whether** can be used only when two contrasting conditions are explicitly mentioned.
- **Example** : Whether he will **go or not** .
- In the given sentence we don't have two contrasting conditions.
- Therefore the correct word to be used here is **if** .

Thus from the above points we can conclude that the error lies in part **2** of the sentence and therefore it is the correct answer.

The correct sentence will be: *The Bench will also have to say **if** the laws are really at consonance with the basic tenets of the 1960 Act.*

3. **Answer: d**

Explanation:

The correct answer is **Is a** .

★ Key Points

Reading the above sentence we find that:

- We are **defining a paragraph** and **definitions** are **fixed** .
- When we are talking about something that is fixed like a definition **we express it in the present tense with certainty**.
- Thus the correct option meeting these requirements is '**Is a**' .

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

The correct sentence will be: *A paragraph **is a** number of sentences grouped together.*

4. Answer: d

Explanation:

It expresses a condition which is doubtful or not factual (like: *If I **were** the Prime Minister*). In such cases, we use **were** with If. Option 4) *were in* is the correct answer.

5. Answer: a

Explanation:

The correct answer is- 'Quaff'

★ Key Points

- 'Carouse' is a **verb** and it means 'to enjoy yourself by drinking alcohol and speaking and laughing loudly in a group of people' so that the similar word of 'Carouse' is 'Quaff'. It is the most suitable option here.
 - Example: We'd been up **carousing** till the early hours and were exhausted.*

Hence **option 1** is the **most appropriate** answer here.

★ Additional Information

WORDS	MEANING
Grieve	feel grief for or because of.
Overlook	fail to notice (something).
Ignore	refuse to take notice of or acknowledge; disregard intentionally.

6. Answer: d

Explanation:

The correct answer is- 'Mild'

★ Key Points

- 'Clement' is an **adjective** and it means 'Clement weather is pleasant or not severe' so that the similar word of 'Clement' is 'Mild'. It is the most suitable option here.
 - *Example: It's very clement for the time of year.*

Hence **option 4** is the **most appropriate** answer here.

★ Additional Information

WORDS	MEANING
Irritate	make (someone) annoyed, impatient, or angry.
Cold	of or at a low or relatively low temperature, especially when compared with the human body.
Clingy	(of a person or garment) liable to cling; clinging.

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7. Answer: a

Explanation:

The correct answer is- 'Truthfulness'

★ Key Points

- 'Artifice' is a **noun** and it means '(the use of) a clever trick or something intended to deceive' so that the opposite word of 'Artifice' is 'Truthfulness'. It is the most suitable option here.
 - *Example: Amazingly for Hollywood, she seems almost entirely without artifice.*

Hence **option 1** is the **most appropriate** answer here

★ Additional Information

WORDS	MEANING
Trick	a cunning or skillful act or scheme intended to deceive or outwit someone.
Skill	the ability to do something well; expertise.
Scheme	a large-scale systematic plan or arrangement for attaining a particular object or putting a particular idea into effect.

8. Answer: a

Explanation:

The correct answer is- 'Extinct'

★ Key Points

- 'Extant' is an **adjective** and it means 'used to refer to something very old that is still existing' so that the opposite word of 'Extant' is 'Extinct'. It is the most suitable option here.
 - Example: We have some **extant** parish records from the 16th century.*

Hence **option 1** is the **most appropriate** answer here

★ Additional Information

WORDS	MEANING
Present	in a particular place.
Immediate	occurring or done at once; instant.
Around	located or situated on every side.

9. Answer: a

Explanation:

Believe of = grammatically incorrect phrase. *Believe in something* or ***believe something*** would be correct. Thus, Q can't be first. Similarly, *believe continue* is incorrect too => only P can be first. Rule out 2) and 3). R can't be last since a sentence can't end with **because** =. rule out 4). Option 1) *PRQ* is the correct answer.

Sociologists **believe** that the reason why honour killings continue to take place is because of the continued rigidity of the caste system.

10. Answer: d

Explanation:

The correct answer is- 'Old spare parts are used for the car by the mechanic.'

★ Key Points

- In the given question the sentence 'The mechanic uses old spare parts for the car.' is in 'Active voice' which is in the **present indefinite** and we know that after converted this sentence into 'Passive voice' the tense will same also should in present indefinite.
 - **Structure Present indefinite:**
 - Sub + V1 + s/es + object (**Active**)
 - Object + is/am/are + V3 + by + subject (**Passive**)
 - **Let's see the example:**
 - *Reema cleans the floor* (**Active**)
 - *The floor is cleaned by Reema* (**Passive**)

Hence the correct sentence is- *Old spare parts are used for the car by the mechanic.*

11. Answer: b

Explanation:

No part of the information should be deleted in reported speech. Since the visitor is interested in knowing **when** i.e. time related, we can't eliminate that part => rule out 1) and 4). Simple present tense (when is) => simple past (**was**). option 2) *The visitor enquired when the next train was* is the correct answer.

Notice how **was** has been moved to the end of the sentence. It is usually done when you change a question to a statement.

12. Answer: b

Explanation:

The correct answer is- '**Acquitted**'

★ Key Points

- '**Acquitted**' is a **verb** and it means '**to decide officially in a law court that someone is not guilty of a particular crime**'
 - *Example: She was **acquitted** of all the charges against her.*

Here, the correct spelling is- *Acquitted*

13. Answer: b

Explanation:

Obeys = a verb. Thus, the blank must contain an **adverb** to describe the verb. Option 2) *Simply* is the only possible choice.

14. Answer: a

Explanation:

A comparison is being made. The sentence says that a large part is of this type. And that too by a big difference or amount. **by far** = a phrase used to imply this. By far = by a great amount. Option 1) *By* is the correct answer.

15. Answer: d

Explanation:

Neither - nor are always used in a couple. *Neither* has been used earlier in the sentence. Thus, the blank must contain 4) **Nor**.

16. Answer: d

Explanation:

Cease = stop. Notice how the sentence is written. Stop thinking about **this** thing. If you actually stop thinking about this thing, you will start thinking about some other thing i.e **that** thing (vague). Option 4) *That* is the correct answer.

17. Answer: d

Explanation:

A doubt is being expressed i.e if it's actually days instead of hours => use 4) *Whether*.

Wither - become dry; decay.

18. Answer: c

Explanation:

The correct answer is- 'Guarantee that funds allocated for a particular purpose will not be spent on anything else.'

★ Key Points

- 'Ring-fencing' is an **idiom** and it means 'to put restrictions on it so that it can only be used for a particular purposer'
 - *Example: The Treasury has now agreed to **ring-fence** the money to ensure that it goes directly towards helping elderly people.*

Hence **option 3** is the **most appropriate** answer here.

19. Answer: c

Explanation:

The correct answer is- 'Remain cheerful in difficult circumstances.'

★ Key Points

- 'Keep your chin up' is an **idiom** and it means 'to encourage someone not to give up or. give in, and remain cheerful despite a difficult situation.'
 - *Example: **Keep your chin up** ! Things will get better soon.*

Hence **option 3** is the **most appropriate** answer here.

20. Answer: a

Explanation:

The correct answer is Option 1)



Explanation:

- **Forfeited** means a fine or penalty for wrongdoing
- **Endow** means give or bequeath an income or property to (a person or institution).
- **Render** means provide or give (a service, help, etc.)
- **Assign** means allocate (a job or duty)

Thus, the correct answer is forfeited

21. Answer: b

Explanation:

Option 2) *Exonerate* (clear from a wrongdoing or crime) is the correct answer.

Indict = formally accuse of or charge with a crime.

Allege = claim or assert that someone has done something illegal or wrong, typically without proof.

Slur = speak (words) indistinctly so that the sounds run into one another.

22. Answer: d

Explanation:

Have or *Are* with **he** will be grammatically incorrect => rule out 1) and 2). The sentence is in the present tense => rule out 3). Option 4) *No improvement* is the correct answer

23. Answer: b

Explanation:

I stroll on => the sentence is in the simple present tense. Rule out 1) and 3). Music = singular => use 2) **soothes**.

24. Answer: d

Explanation:

The given part ends with **an** => only B can be first. Rule out 2) and 3). A sentence can't be ended with **or** => rule out 1). Option 4) **BCA** is the correct answer.

There is an instant rapport in the written communication which the printed message or a telephonic talk could never replicate.

25. Answer: d

Explanation:

The correct answer is- **'Bifurcated'**

★ Key Points

- 'Bifurcated' is a **verb** and it means '(of roads, rivers, branches, etc.) to divide into two parts'
 - *Example: A sample of water was taken from the point where the river bifurcates .*

Here, the correct spelling is- *Bifurcated*

26. Answer: d

Explanation:

The saw is used by the carpenter and the axe is used by the woodcutter.

Hence, the related word pair is Axe : Woodcutter.

27. Answer: b

Explanation:

In 69 : 87

$$69 + 18 = 87$$

$$1) 77 : 97 \rightarrow 77 + 20 = 97$$

$$2) 117 : 135 \rightarrow 117 + 18 = 135$$

$$3) 95 : 107 \rightarrow 95 + 12 = 107$$

$$4) 121 : 145 \rightarrow 121 + 24 = 145$$

Hence, the related number pair is 117 : 135.

28. Answer: c

Explanation:

The pattern followed:

In SQM : RPL,

$$S - 1 = R, Q - 1 = P, M - 1 = L$$

1) KCN : JBO, $K - 1 = J$, $C - 1 = B$, $N + 1 = O$

2) DQA : CPB, $D - 1 = C$, $Q - 1 = P$, $A + 1 = B$

3) BSU : ART, $B - 1 = A$, $S - 1 = R$, $U - 1 = T$

4) PYC : OXD, $P - 1 = O$, $Y - 1 = X$, $C + 1 = D$

Hence, the related letter pair is BSU : ART.

29. Answer: d

Explanation:

All except painting are different colours.

Hence, painting is the odd one out.

30. Answer: d

Explanation:

1) $16 - 32$, $16 + 16 = 32$

2) $24 - 48$, $24 + 24 = 48$

3) $36 - 72$, $36 + 36 = 72$

4) $32 - 66$, $32 + 34 = 66$

Hence, $32 - 66$ is the odd one out pair.

31. Answer: d

Explanation:

1) $GEC = G - 2 = E, E - 2 = C$

2) $NLJ = N - 2 = L, L - 2 = J$

3) $OMK = O - 2 = M, M - 2 = K$

4) $YWN = Y - 2 = W, W - 9 = N$

Hence, YWN is the odd one out.

32. Answer: c

Explanation:

The correct sequence of the given words as they would appear in an English dictionary is shown as follows:-

3. Climax

5. Climb

2. Clown

1. Clump

4. Clumsy

As can be seen from the above that the correct sequence of the given words is 35214.

Hence, the correct answer is "35214".

33. Answer: b

Explanation:

Patter followed in the series,

$$2 + 3 + 4 \rightarrow 9$$

$$3 + 4 + 9 \rightarrow 16$$

$$4 + 9 + 16 \rightarrow 29$$

$$9 + 16 + 29 \rightarrow 54$$

$$16 + 29 + 54 \rightarrow \mathbf{99}$$

Hence, the missing number is 99.

34. Answer: a

Explanation:

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

The pattern followed in the given series:

$$E + 4 = I$$

$$I + 4 = M$$

$$M + 4 = Q$$

$$Q + 4 = U$$

$$U + 4 = Y$$

Hence, the missing term is Q.

35. Answer: a

Explanation:

Let the present ages of R and S be $3x$ and $2x$ respectively since their present age are in the ratio $3 : 2$.

R's present age is $\frac{4}{13}$ of H's present age

$$\text{i.e. } 3x = \frac{4}{13} \times 117$$

$$3x = 4 \times 9$$

$$3x = 36$$

$$x = 12$$

Thus, the present age of R is $3 \times 12 = 36$ years.

The present age of S is $2 \times 12 = 24$ years.

Let the no. of years after which the ratio of the ages of R and S would be $15 : 11$ be z .

$$\text{Age of R / Age of S} = 15/11$$

$$36 + z / 24 + z = 15/11$$

$$(36 + z) \times 11 = 15 \times (24 + z)$$

$$396 + 11z = 360 + 15z$$

$$4z = 396 - 360$$

$$4z = 36$$

$$z = 9$$

Hence, after 9 years, the ages of R and S would be in the ratio of $15 : 11$.

36. Answer: a**Explanation:**

1) Repair – Represhensible – cannot be formed as there is no 'a'.

2) Hen – Repres **hen** sible – can be formed.

3) Rise – Repr **es** hens ible – can be formed.

4) Ripe – Re **pre** shens ible – can be formed.

Hence, Repair cannot be formed from the word Represhensible.

37. Answer: c

Explanation:

The pattern followed here is:-

Each letter is represented by its positional value in alphabetical series.

FUMIC is coded as 6211393

F = 6, U = 21, M = 13, I = 9, C = 3

STEAM is coded as 19205113

S = 19, T = 20, E = 5, A = 1, M = 13

Similarly,

PROP is coded as 16181516

P = 16, R = 18, O = 15, P = 16

Hence, the correct answer is "16181516".

38. Answer: a

Explanation:

Given equation:

$$20 \div 12 - 30 + 10 \times 10 = ?$$

Symbol	$\times$	$\div$	$-$	$+$
Meaning	$+$	$\times$	$\div$	$-$

The given equation can be rewritten as:

$$20 \times 12 \div 30 - 10 + 10$$

$$= 20 \times 0.4 - 10 + 10$$

$$= 8 - 10 + 10$$

$$= 8$$

Hence, the answer is 8.

39. Answer: b

Explanation:

Given equation: $32 \div 16 - 5 \times 8 + 2 = 13$

1) $+$ and $\div \rightarrow 32 + 16 - 5 \times 8 \div 2 = 32 + 16 - 5 \times 4 = 32 + 16 - 20 = 48 - 20 = 28$ not equal to 13

2) $+$ and $\times \rightarrow 32 \div 16 - 5 + 8 \times 2 = 2 - 5 + 16 = 18 - 5 = \mathbf{13 = 13}$

3) $-$ and $+$ $\rightarrow 32 \div 16 + 5 \times 8 - 2 = 2 + 40 - 2 = 42 - 2 = 40$ not equal to 13

4) $\div$ and $\times \rightarrow 32 \times 16 - 5 \div 8 + 2 = 512 - 0.625 + 2 = 514 - 0.625 = 513.375$ not equal to 13.

Hence, + and $\times$ should be interchanged to correct the equation.

40. Answer: d

Explanation:

The pattern followed here is:

$$\text{In } 6@16 = 11,$$

$$(6 + 16) \div 2 = 11$$

$$\text{In } 2@14 = 8,$$

$$(2 + 14) \div 2 = 8$$

$$\text{In } 8@8 = 8,$$

$$(8 + 8) \div 2 = 8$$

$$\text{In } 10@18 = ?$$

$$(10 + 18) \div 2 = 14$$

Hence, the answer is 14.

41. Answer: c

Explanation:

The pattern followed in the given list is that the position of the second B is changing to preceded position.

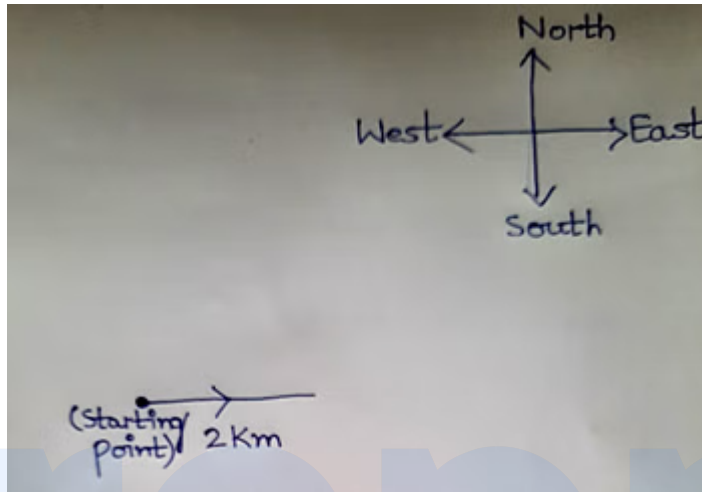
Hence, the answer is BBAAAAAA.

42. Answer: d

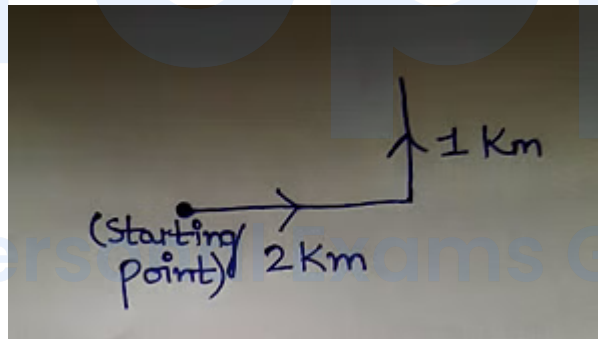
Explanation:

Given → An old man starts his daily walking routine.

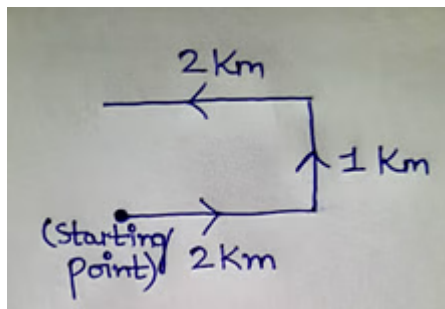
1) He walks 2 km East.



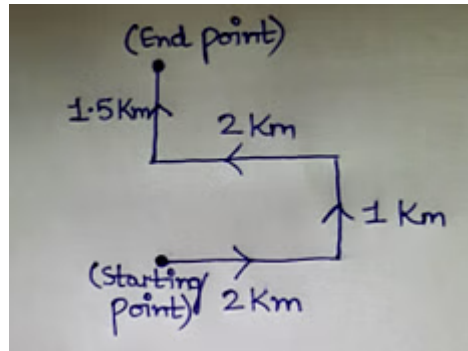
2) Then turns North and walks 1 km.



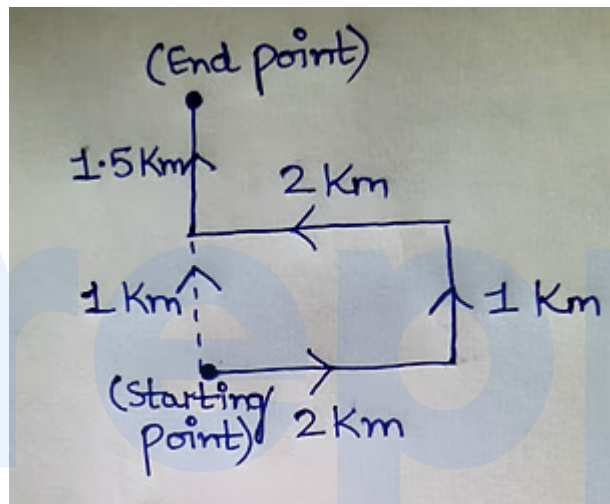
3) Then turns West and walks 2 km.



4) Then turns to his right and walks 1.5 km.



5) Distance and Direction of the old man with respect to the starting point.



As can be seen clearly from the above that the old man is 2.5 km away in the North direction with respect to the starting point.

Hence, the correct answer is "2.5 km North".

43. Answer: d

Explanation:

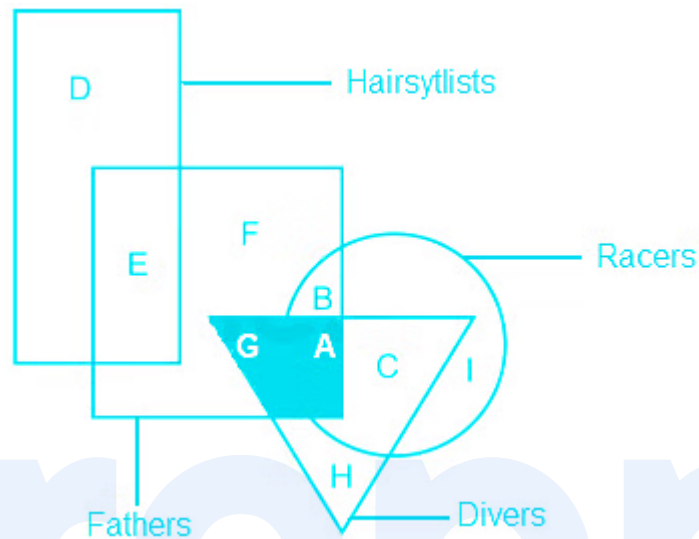
We can draw Venn diagram from the given information:



Hence, neither conclusion I nor conclusion II follow.

44. Answer: d

Explanation:



The fathers who are divers are represented by letters that are commonly present in square and triangle i.e. by letters G and A.

Hence, the answer is GA.

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45. Answer: d

Explanation:

The pattern followed in the given series is:

R - 1 → Q - 1 → P - 1 → O - 1 → N

F - 2 → D - 2 → B - 2 → Z - 2 → X

T - 3 → Q - 3 → N - 3 → K - 3 → H

Hence, the answer is NXH.

46. Answer: b

Explanation:

The pattern followed in the given series is:

$$52 - 11 = 41$$

$$41 - 9 = 32$$

$$32 - 7 = 25$$

$$25 - 5 = 20$$

$$20 - 3 = 17$$

Hence, the missing number is 20.

47. Answer: b

Explanation:

The pattern followed in the given alternatives is:

$$1) (6, 19, 30) - (6 \times 3) + 1 = 19, 6 \times 5 = 30$$

$$2) (9, 29, 45) - (9 \times 3) + 2 = 29, 9 \times 5 = 45$$

$$3) (11, 34, 55) - (11 \times 3) + 1 = 34, 11 \times 5 = 55$$

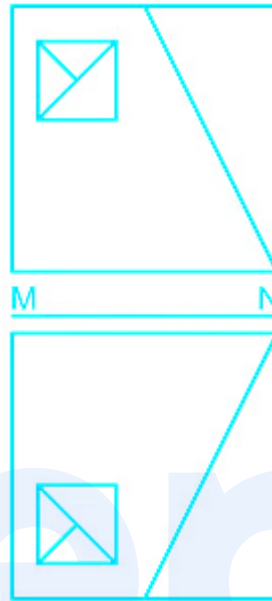
$$4) (13, 40, 65) - (13 \times 3) + 1 = 40, 13 \times 5 = 65$$

Hence, the odd one out is (9, 29, 45).

48. Answer: d

Explanation:

The correct mirror image of the given figure when a mirror is placed on the line MN is as shown below:-



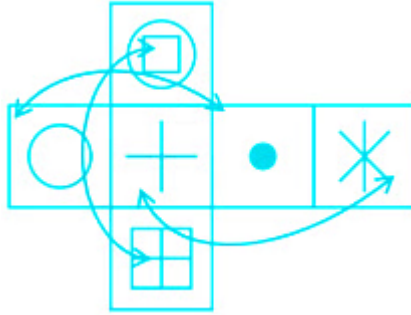
Hence, the correct answer is "Option 4".

★ Additional Information

- The mirror always forms the laterally inverted images, i.e. left changes to right and vice-versa.
- The reflection of an object in the water is called its water image.
- The water image of an object in the water is always vertically inverted, i.e. upside changes to downside and vice-versa.
- The water image is the mirror image in case if the mirror is placed horizontally below the object.

49. Answer: b

Explanation:



Dice 2 cannot be formed as + symbol side and cross side face are opposite to each other.

Hence, the cube in option 2 cannot be made based on the given unfolded cube.

50. Answer: d

Explanation:

1) 31, 76, 24, 96 → A, V, F, X

2) 20, 59, 41, 88 → F, S, L, T

3) 33, 68, 31, 75 → J, O, A, N

4) 42, 57, 75, 11 → D, U, N, G

Hence, "DUNG" can be represented as "42, 57, 75, 11".

51. Answer: d

Explanation:

$$(159)^{144} + (114)^{123} - (110)^{510} + (213)^{25}$$

We will consider the unit digit of each number

$$\Rightarrow (9)^{144} + (4)^{123} - (0)^{510} + (3)^{25}$$

$$\Rightarrow 1 + 4 - 0 + 3$$

(consider only unit place digit of each sum)

$$\Rightarrow 8$$

$\therefore$ The unit place digit in the expression is 8

52. Answer: d

Explanation:

Given that,

$$\frac{256}{0.256} = \frac{25.6}{x}$$

$$\Rightarrow x = (25.6 \times 0.256) / 256$$

$$\therefore x = 0.0256$$

53. Answer: d

Explanation:

Given that

$$\sqrt{15\sqrt{15\sqrt{15\sqrt{15\sqrt{15}}\dots\infty}}}$$

$$\sqrt{n\sqrt{n\sqrt{n\sqrt{n\sqrt{n}}\dots\infty}}} = n$$

So, here

$$n = 15$$

$$\therefore x^2 + 4 = (15)^2 + 4 = 225 + 4 = 229$$

54. Answer: b

Explanation:

It is given that the two eq have solution

$$x - 4y = 0 \quad \text{---- (i)}$$

$$4x + 3y = 19 \quad \text{---- (ii)}$$

Multiplying eq 1 $\times$ 4 and rewriting both the equations we get

$$4x - 16y = 0$$

$$4x + 3y = 19$$

On subtracting

$$\Rightarrow -19y = -19$$

$$\Rightarrow y = 1$$

Putting $y = 1$ in eq(i) we get

$$\Rightarrow 4x - 16 = 0$$

$$\Rightarrow x = 4$$

So the solution will be $x = a = 4, y = b = 1$ i.e. $(4, 1)$

$$\therefore \text{value of } ab / (a + 4b) = (4 \times 1) / (4 + 4 \times 1) = 4/8 = 1/2$$

55. Answer: d

Explanation:

By the definition of congruent triangle

Two triangles are congruent if they are equal in all respects with each other

In simple sence one should overlap other completely and if this is the rule than their area will be same and they are always similar to eachother

But,

Two similar triangle may or may not be congruent

$\therefore$ All options are correct regarding a triangle

56. Answer: c

Explanation:

Here

Since, $(13)^2 < (12)^2 + (6)^2$

Hence this is an acute angle triangle by triangle inequality concept

57. Answer: c

Explanation:

let the weights of Ayush and Abhishek be 60 and 110 kg (ratio - 6 : 11)

Abhishek's weight after increment = $110 \times 125/100 = 137.5$ kg (25% increment)

Total Weight after increment = $170 \times 140/100 = 238$ (It is given as 119 i.e. actual initial weight would be 30 and 55)

Abhishek's actual weight after increment = $55 \times 125/100 = 68.75$ kg

Ayush's weight after increment = $119 - 68.75 = 50.25$

58. Answer: a

Explanation:

Given that,

Total coins = 112

Let Rs. $15x$ be value of 5 rupees coins, Rs. $4x$ be the value of 2 rupees coins and $2x$ be the value of 1 rupee coins

According to the question,

$$15x/5 + 4x/2 + 2x/1 = 112$$

$$\Rightarrow 3x + 2x + 2x = 112$$

$$\Rightarrow 7x = 112$$

$$\Rightarrow x = 16$$

$$\therefore 2 \text{ rupees coins are there in the box} = 4x/2 = 2x = 2 \times 16 = 32$$

59. Answer: b**Explanation:**

Let the quantity of the two liquids A and B be $5x$ and $4x$ respectively.

According to the question

$$(5x)/(4x + 2) = 7/6$$

$$\Rightarrow 30x = 28x + 14$$

$$\Rightarrow 2x = 14$$

$$\Rightarrow x = 7$$

$$\therefore \text{Quantity of liquid A in mixture} = 7 \times 5 = 35 \text{ liters}$$

60. Answer: b

Explanation:

Average of 10 numbers = 14

If each number is multiplied with a constant than the whole Average gets multiplied with the same constant.

$$\therefore \text{New Avg} = 14 \times 6 = 84$$

61. Answer: c

Explanation:

Given that,

$$\text{S.I} = 5/9 P$$

We know that,

$$\text{S.I} = (P \times R \times T)/100$$

$$\Rightarrow 5/9 P = (P \times R \times 25)/100$$

$$\Rightarrow 5/9 \times 4 = R$$

$$\therefore R = 20/9\%$$

62. Answer: a

Explanation:

Given that,

$$\text{S.P} = 684.25$$

$$\text{C.P} = 595$$

$$\therefore \text{Profit \%} = (684.25 - 595)/595 \times 100 = 15\%$$

63. Answer: b

Explanation:

According to the question

$$2898 = \text{M.P} \times 75/100 \times (1 - y/100)$$

$$\Rightarrow 2898 = 4200 \times 75/100 \times (1 - y/100)$$

$$\Rightarrow 2898 / (42 \times 75) = (1 - y/100)$$

$$\Rightarrow 2898/3150 - 1 = (-y/100)$$

$$\Rightarrow (-252)/3150 = -y/100$$

$$\therefore y = (252 \times 100)/3150 = 8\%$$

64. Answer: b

Explanation:

Given that,

$$[(\sqrt{529}) + (\sqrt{5.29}) + (\sqrt{0.0529})]$$

$$\Rightarrow (23 + 2.3 + 0.23) = 25.53$$

$$\therefore \text{answer is } 25.53$$

65. Answer: b

Explanation:

Let the total work = 60 units

Efficiency of P = $60/20 = 3$ units/day

Efficiency of Q = $60/12 = 5$ units/day

Total efficiency of P, Q and R = $60/5 = 12$ units/day

So, Efficiency of R = $12 - (3 + 5) = 4$ units/day

We know that,

Share will be divided on the basis of work done

Wages $\propto$ Work

Work $\propto$ Efficiency

$\therefore$ Share of R = $4/12 \times 7200 = \text{Rs. } 2400$

66. Answer: b

Explanation:

Let the speed of the boat and speed of the stream be x km/hr and y km/hr respectively

According to the question,

$$143/(x - y) = 13 \text{ ---- (i)}$$

$$143/(x + y) = 11 \text{ ---- (ii)}$$

On comparing both eq

$$11(x + y) = 13(x - y)$$

$$\Rightarrow 11x + 11y = 13x - 13y$$

$$\Rightarrow 24y = 2x$$

$$\Rightarrow x : y = 12 : 1$$

$\therefore$ Speed of the boat in still water is 12 km/hr

67. Answer: a

Explanation:

From the options

As we can see in the diagram in 2013 the production was 30 and in its previous year i.e in 2012 it is 90 hence the answer will be 2013.

Rest in all options the production was maximum or not as per the question

68. Answer: a

Explanation:

Production of steel in 2011 = 35

Production of steel in 2015 = 25

$$\therefore \text{Difference} = 35 - 25 = 10$$

69. Answer: d

Explanation:

Production of steel in 2012 = 90

Production of steel in 2015 = 25

$$\therefore \text{Required \%} = (90 - 25)/25 \times 100 = 260\%$$

70. Answer: c

Explanation:

Given that cost of 1 tonne of steel = Rs. 30,000

$\therefore$ in 2017 the cost of steel (in billions) = $80 \times 30000 = 2400$

71. Answer: a

Explanation:

Given:

The perimeter of a square = 26 cm

Formula used:

Perimeter of square = $4a$

Area of a square = a^2

Where $a \rightarrow$ side of the square

Calculation:

$$\Rightarrow 4a = 26$$

$$\Rightarrow a = 26/4 = 6.5 \text{ cm}$$

$$\therefore \text{area of square} = a^2 = 6.5 \times 6.5 = 42.25 \text{ cm sq}$$

72. Answer: a

Explanation:

Given:

$$\text{Area of circle} = 616\text{cm}^2$$

Formula used:

$$\text{Area of circle} = \pi r^2$$

where $r \rightarrow$ radius of a circle

Calculation:

$$\Rightarrow \pi r^2 = 616$$

$$\Rightarrow \frac{22}{7} \times r^2 = 616$$

$$\Rightarrow r^2 = 196$$

$$\therefore r = 14 \text{ cm}$$

73. Answer: a

Explanation:

Given:

$$\text{Diameter} = 14 \text{ cm},$$

$$\text{So, } r = 14/2 = 7 \text{ cm}$$

Formula used:

$$\text{Surface area of sphere} = 4\pi r^2$$

where $r \rightarrow$ radius of a sphere

Calculation:

$$r = 14/2 = 7 \text{ cm}$$

$$\therefore \text{Surface area of sphere} = 4 \times \frac{22}{7} \times 7 \times 7 = 616 \text{ sq.cm}$$

74. Answer: b

Explanation:

Given that,

$$(1/\sqrt{3} - \sin 45^\circ)$$

$$\Rightarrow 1/(\sqrt{3}) - 1/(\sqrt{2})$$

$$\Rightarrow (\sqrt{2} - \sqrt{3})/(\sqrt{6})$$

75. Answer: a

Explanation:

In ΔPQR measure of angle Q is 90° ,

$\cot P = \text{Base/Perpendicular}$

$$\Rightarrow \cot P = PQ/QR$$

$$\Rightarrow PQ/QR = 8/15$$

$$\Rightarrow 4/QR = 8/15$$

$$\Rightarrow QR = 7.5$$

By pythagoras Theorem,

$$PR^2 = PQ^2 + QR^2$$

$$\Rightarrow PR^2 = 4^2 + 7.5^2$$

$$\Rightarrow PR^2 = 16 + 56.25 = 72.25$$

$\therefore$ PR = 8.5 cm

76. Answer: d

Explanation:

- The **International Monetary Fund (IMF)** is an international organization consisting of 189 countries working to foster global monetary cooperation, secure financial stability, facilitate international trade, promote high employment and sustainable economic growth and also to reduce poverty around the world.
 - Voting power in the IMF is purely based on a **quota system**.
 - So, voting rights in the IMF are distributed on the basis of proportion to quota allotted to countries from time to time.
-

77. Answer: d

Explanation:

- **Land reform** involves the changing of laws, regulations or customs regarding the land ownership.
- The main purpose of land reforms in India are:
 - Rational use of Resources
 - Raising Production level
 - Removal of Exploitation
 - Social Welfare
 - Planned Development
 - Raising the Standard of living

★ Key Points

- Land reforms are the reforms that involve change of laws, regulations or customs with respect to the ownership of the land.

- According to the great economist Prof. Gunnar Myrdal, "the land reforms are the planning and institutional restructuring of the relations between the man and the land".
- At the time of independence, in most of the agricultural sector of the country, the role of mediators existed between the tenant and the owner of the land.
- There was no guarantee of this landholding and certainty in rent. Therefore, after independence, the cultivator was given the real rights of the land.
- To do this, the process of land reform was adopted, which was considered a progressive process.

★ Additional Information

Following were the objectives of the Land Reforms:

- To remove the existing institutional anomalies in the agriculture sector and to rationalize and modernize the sector by steps such as land ownership, land rights, paying attention to tenant safety, etc.
- To eliminate economic inequality and to achieve social equality.
- To obtain and establish a public welfare state.
- Eradicating poverty and imparting common beliefs among the people.
- To end the old land relations and establish a new system in which the cultivators of the land are its actual owner.
- Ending social injustice, strengthening the position of tenants and, granting equal rights for all sections of the rural population

78. Answer: c

Explanation:

The correct answer is Hum.

★ Key Points

- A **hummock** is a little **mound** or **knoll** that is above ground.
- They often **exist in groups or fields** and are typically not taller than **15 meters**.

- Hummocks are created by **large landslide avalanches**, which often happen in **volcanic regions**.
- A **boss or rounded knoll** of ice rising above the overall level of an ice field is known as an **ice hummock**.

★ Additional Information

- **Monadnock :**
 - A **rock hill, knob, ridge, or tiny mountain** that abruptly rises from a **gently sloping or almost level surrounding plain** is known as an **inselberg** or a **monadnock**.
- **Pediplain:**
 - An **expansive plain** created by the coalescence of pediments is known as a **pediplain**.

79. Answer: a

Explanation:

- **Narmada** river is one of the three major rivers in peninsular India that run from east to west along with Tapti River and the Mahi River.
- It is one of the rivers in India that flows in the rift valley, flowing west between the **Satpura and Vindhya ranges**.
- So, Narmada river of peninsular India is distinct from the remaining three in the above rivers

80. Answer: d

Explanation:

- **Couple burial** was found from **Lothal** at the Harappan sites.
- **Lothal** was one of the southernmost city of the ancient Indus valley civilisation located in the Bhal region of Gujarat.

- Burial or interment is the ritual act of placing a dead person or animals, sometimes with objects, into the ground.
-

81. Answer: b

Explanation:

- The Indian Councils Act 1892 was an Act of Parliament of the United Kingdom that authorized an **increase in the size of the various legislative councils** in British India.
 - **Viceroy Lord Dufferin** setup a committee and it had a responsibility to draw a plan for the enlargement of provincial councils and enhancement of their status.
 - So, The Indian Council of 1892 Act was based on Dufferin Plain.
-

82. Answer: a

Explanation:

- Nandalal Bose was one of the pioneers of the modern Indian art. Bose was known for his " **Indian style**" of painting.
 - **Nandalal Bose** earns fame in the field of **Painting**.
-

83. Answer: c

Explanation:

- **Saudi Arabia** is the country which announced to allow women into three sports stadium for the first time since 2018 in October 2017.
- Because the Kingdom appears to be relaxing some norms as a part of their "Vision 2030" for economic and social reforms.

84. Answer: c

Explanation:

- **Master of None** is an American comedy-drama web television series which was created by **Aziz Ansari** and **Alan Yang**.
- **Golden Globe** award was awarded for "Excellence in film and television" by the United States.
- In January 2018, Aziz Ansari became the first Indian-American and first Asian to win a Golden Globe award for "**Master of None**" comedy series.

85. Answer: a

Explanation:

- **Ananda Samarakoon** was a Sri Lankan composer and musician.
- He composed the Sri Lankan national anthem "**Sri Lanka Matha**" and is considered as the father of artistic Sinhala music.

86. Answer: d

Explanation:

Johan Newlands an English chemist has classified 56 elements into 11 groups based on the physical properties and proposed the **Law of Octaves** which states that every eight elements repeated its physical and chemical properties.

Newlands periodic table:

H	F	Cl	Co/Ni	Br	Pd	I	Pt/Ir
Li	Na	K	Cu	Rb	Ag	Cs	Tl
Gl	Mg	Ca	Zn	Sr	Cd	Ba/V	Pb
BO	Al	Cr	Y	Ce/La	U	Ta	Th
C	Si	Ti	In	Zr	Sn	W	Hg
N	P	Mn	As	Di/Mo	Sb	Nb	Bi
O	S	Fe	Se	Ro/Ru	Te	Au	Os

- In a periodic table, each row of elements consists of total seven elements and the eighth element falls under the first element.
- In the first column lithium (Li) is the first element and sodium (Na) is the eighth element.

87. Answer: d

Explanation:

Manganese	Mn
Air	Mixture of gas
Ozone	O ₃
Ammonia gas	NH ₃

A **compound** is a substance that formed when two or more chemical elements are chemically bonded together.

Ammonia is a compound of nitrogen and hydrogen with formula NH₃ which is colorless gas.

88. Answer: d

Explanation:

- The 11th Schedule of Indian Constitution was added in 1992 by 73rd Constitution Amendment Act. This schedule contains **29** subjects.
- This schedule covers important topics such as Panchayat's powers, rural development, poverty alleviation, market, roads, and drinking water.
- It is in Part 9th.
- **How to remember all the schedules:** Code for 12 schedules is >TEARS OF OLD
 1st Schedule: T- Territory, 2nd Schedule: E- Emoluments/salary, 3rd Schedule: A- Affirmation/Oath, 4th Schedule: R- Rajya Sabha, 5th Schedule: S- Scheduled Tribes, 6th Schedule: O- Other Tribes, 7th Schedule: F- Federal (Division Of Powers), 8th Schedule: O- ;Official Regional Languages, 9th Schedule: L- Land Reform, 10th Schedule: D- Defection (Anti-Defection Law), 11th Schedule: P- Panchayati Raj, 12th Schedule: M- Municipal Corporation

89. Answer: c

Explanation:

Solution:

- List of Provisions amended by Special Majority of Parliament and Consent of States
- Election of President and its manner.
- The extent of the executive power of the Union and the states
- Supreme court and High courts
- Distribution of legislative powers between Union and States.
- Any of the list in the seventh schedule
- Representation of states in Parliament
- Power of Parliament to amend the Constitution and its procedure (Article 368).

90. Answer: b

Explanation:

- **Blood** is called a liquid connective tissue because it connects various body tissues and organs together by oxygen, hormones and various nutrients.
- The intercellular fluid bathes and surrounds the cells of the body, and provides a means of delivering materials to the cells, intercellular communication, and removal of metabolic waste.
- Blood is a connective tissue embedded in a fluid type of intercellular matrix.

91. Answer: c

Explanation:

- A **Lichen** is a composite organism that arises from **algae or cyanobacteria** living among filaments in a symbiotic relationship.
 - **Symbiosis** is any type of a close and long-term biological interaction between two different biological organisms.
 - Slow-growing large colored patches on the bark of trees are the examples of symbiotic life forms called **lichen**.
-

92. Answer: d

Explanation:

- On 17 October 2017, **Maneka Sanjay Gandhi** launched the online Campaign 'women for women: #IAmThatWomen' to end gender bias.
 - Maneka Sanjay Gandhi is an Indian Union Cabinet Minister for Women and Child Development.
-

93. Answer: d

Explanation:

- India was declared free from **Trachoma** infective eye disorder on 9 December 2017 by Union Health Minister J.P.Nadda.
 - Trachoma is a chronic infective disease of the eye and is leading cause of infective blindness globally.
-

94. Answer: c

Explanation:

- On 25 October 2017, the government announced a recapitalization plan for state-owned banks. Rs 2.11 lakh crore was announced for Banks'

recapitalization by Arun Jaitley.

- The recapitalization is described as a strategy for enhancing the **financial base of the entity** to overcome a rough financial health.

95. Answer: a

Explanation:

- On 22 November 2017, the cabinet approved the expansion of "Beti Bacho Beti Padhao" for greater Pan India coverage.
- **PAN** is a widely used business term. PAN stands for " **Presence Across Nation**".
- It means:
 - Spreading Across India OR
 - Spreading All over India OR
 - Presence in All parts of India.
- **Beti Bachao, Beti Padhao** is a personal campaign of the Government of India which aims to generate awareness and improve the efficiency of welfare services intended for girls.

96. Answer: b

Explanation:

Given:

Resistance, $R = 800 \Omega$

Current, $I = 0.2 \text{ A}$

Time, $t = 40 \text{ seconds}$

To find:

Heat

Formula:

The Heat in joules is given by $H = I^2 R t$

Calculation:

$$H = I^2 R t$$

$$H = (0.2)^2 (800) (40)$$

$$H = 1280 \text{ (J)}$$

97. Answer: c

Explanation:

- The kinetic energy of an object is the energy that possesses due to its motion.
- So, When an object is thrown vertically upwards, at its maximum height its kinetic energy is zero.

98. Answer: d

Explanation:

- Methane is **non-toxic** also “simple asphyxiant” because it can displace oxygen which is needed for breathing. So, it is called a Greenhouse gas.
- A greenhouse gas in an atmosphere will absorb and emits radiant energy within the thermal infrared range.
- **Methane** contributes towards global warming so it is called a greenhouse gas.

99. Answer: c

Explanation:

- **Dubai Tennis Championships** hosted the Tennis 2017 ATP World Tour Finals.
- In 2017, Per Mertesacker captained the Premier League team **Arsenal**.
- In 2017, Stephen Curry played for the NBA team Golden State Warriors.

100. Answer: b

Explanation:

Shortcut keys	Action Performed
Ctrl + down arrow	End of column
Ctrl + right arrow	End of row
Left arrow	One cell Left
Right arrow	One cell right