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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: 18 July 2022 Shift 2)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

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

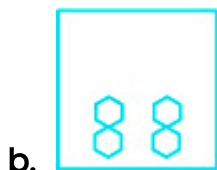
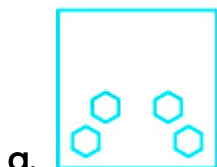
General Intelligence & Reasoning

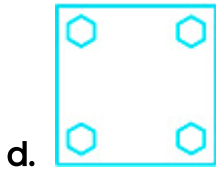
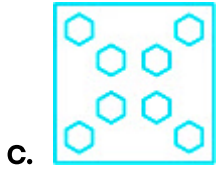
1. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term. (+1, -0.25)

ACADEMY : ZXZ WVNB :: FINANCE : URMZMXV :: PACKAGE : ?

- a. KZXPZUV
- b. KZXPZTU
- c. KZXQZTV
- d. KZXPZTV

2. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded? (+1, -0.25)





3. Select the letter-cluster that can replace the question mark (?) in the following series. (+1, -0.25)

TOC, SLX, RIS, QFN, ?

- a. PEI
- b. PCJ
- c. PCI
- d. PDI



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4. If '-' stands for 'x', 'x' stands for '+', '+' stands for '÷' and '÷' stands for '-', then what will be the value of $516 - 2558 + 172 \times 12 \div 7086$? (+1, -0.25)

- a. 500
- b. 400
- c. 600
- d. 700

5. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster. (+1, -0.25)

POK : HLM :: ORT : ?

- a. QPL
- b. QOM
- c. QPM
- d. QOL

6. In a certain code language, '251' means 'Water is Black', '509' means 'Black Her Eyes' and '981' means 'Eyes Like Water'. Find the code for 'is'. (+1, -0.25)

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

7. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster. (+1, -0.25)

LON : RRN :: MAD : ?

- a. IDO
- b. HDO
- c. IEO

d. HEO

8. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. (+1, -0.25)

Statements:

No apples are trees.

Some trees are dense.

Conclusions:

I. Some apples are dense.

II. No tree is an apple.

a. Both conclusions I and II follow

b. Only conclusion I follows.

c. Neither conclusion I nor II follows.

d. Only conclusion II follows.

9. Select the number from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)

8, 18, 57, 232, ?, 6996

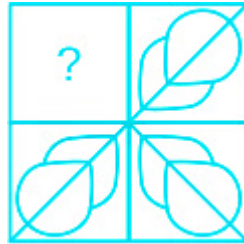
a. 888

b. 1165

c. 924

d. 828

10. Select the figure from the options that can replace the question mark (?) (+1, -0.25) and complete the given pattern.



11. Select the number from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)

53, 55, 58, 63, ?, 81

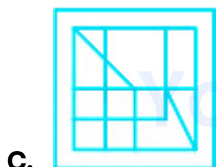
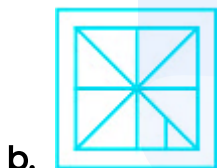
a. 68

b. 71

c. 70

d. 69

12. Select the option in which the given figure is embedded as its part (rotation is NOT allowed). (+1, -0.25)



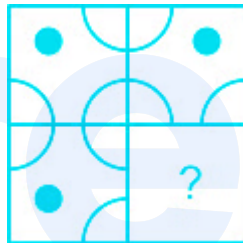
13. By interchanging the given two signs and two numbers (not digits), which of the following equations will be correct? \div and \times , 25 and 12 (+1, -0.25)

I. $105 \div 10 \times 75 + 25 - 12 = 3$

II. $75 \times 12 \div 25 + 14 - 10 = 40$

- a. Only II is correct
- b. Both I and II are correct.
- c. Only I is correct.
- d. Neither I nor II is correct.

14. Select the figure from the options that can replace the question mark (?) (+1, -0.25) and complete the pattern (Rotation is not allowed).



15. In a certain code language, 'TRAIND' is written as 'FPKBSU', and 'POKRSB' is written as 'DUTLPQ'. How will 'ANLCGH' be written in that language? (+1, -0.25)
- a. JIENOB
 - b. JIEMOB
 - c. JIFMOB
 - d. JHEMOB

16. In a certain code language, 'Grains contain wheat rice' is coded as '8 6 # %', and 'Rice are hard grains' is coded as '# pr % lm'. What is the code for 'grains rice' in that code language?
- a. # %
 - b. % 6
 - c. lm 6
 - d. # pr

17. Three males K, J and M are sitting in a row facing towards the south (not necessarily in the same order). Three females R, F and T are sitting in a row facing towards the face of these males (not necessarily in the same order). R is the immediate neighbour of F and T. K is second to the right of M. R is to the immediate left of F. If we arrange the females in the alphabetical order of their names from the left end to the right end, then how many females will face the same male who they faced before this new arrangement?
- a. One

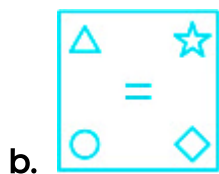
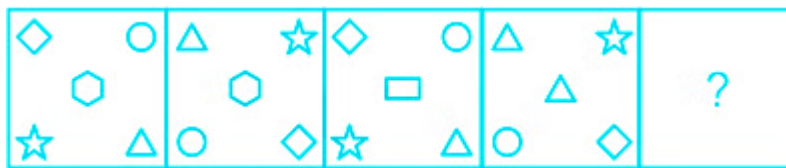
- b. Two
- c. Three
- d. Zero

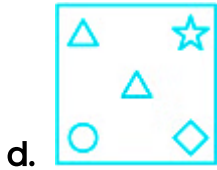
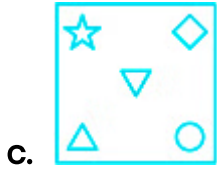
18. Select the option that is related to the fifth number in the same way as $(+1, -0.25)$ the second number is related to the first number and the fourth number is related to the third number.

$$225 : 36 :: 257 : 56 :: 358 : ?$$

- a. 64
- b. 44
- c. 54
- d. 60

19. Select the figure from among the given options that can replace the question mark (?) in the following series. $(+1, -0.25)$





20. Six persons – Arun, Brij, Chaman, Danish, Evan and Farukh – sit around a circular table facing the centre. Farukh is second to the right of Arun. Danish is second to the left of Chaman. Brij is to the immediate right of Farukh. Who sits third to the left of Evan? (+1, -0.25)

- a. Farukh
- b. Arun
- c. Danish
- d. Chaman

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21. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. (+1, -0.25)

Statements:

All radios are electronic items.

Some speakers are electronic items.

Conclusions:

- I. No radio is a speaker.
 - II. Some radios are speakers.
- a. Only conclusion I follows.
 - b. Only conclusion II follows.
 - c. Both conclusions I and II follow.
 - d. Either conclusion I or II follows.

-
22. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (+1, -0.25)

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(4, 5, 81) (2, 5, 49)

- a. (4, 6, 90)
- b. (4, 7, 111)
- c. (3, 5, 64)
- d. (3, 5, 74)

-
23. Six people, F, G, H, I, J and K, got different marks in their examination. G got more marks than F and K. F got more marks than I, but not the highest marks. G scored more marks than H. K got more marks than J, but fewer marks than H. I got the thirdlowest marks. F got more marks than K but

less than H. F got 59 marks and K got 46 marks. Who among the following got the highest marks?

- a. G
- b. J
- c. H
- d. K

24. Select the figure from the options that can replace the question mark (?) (+1, -0.25) and complete the pattern (Rotation is not allowed).



25. In a certain code language, 'SWISS' is written as 'HDRHH', and 'TABOO' is written as 'GZYL'. How will 'REHAB' be written in that language? (+1, -0.25)
- a. HHGAK
 - b. IGASH
 - c. IVSZY
 - d. BAHRE

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Numerical Aptitude

26. P can do a piece of work alone in 16 days, Q can do the same work alone in 24 days, while R can do it alone in 48 days. They work together and complete the work, and receive a total of Rs. 744 as payment for doing the work. What is the share of the person who received the smallest amount? (+1, -0.25)
- a. Rs. 118
- b. Rs. 124
- c. Rs. 132
- d. Rs. 112
-
27. The marked price of an article is Rs. 20,000, and while selling, the shopkeeper offers two successive discounts of 12% and d%. If the selling price of the article is Rs. 16,720, then what is the value of d? (+1, -0.25)
- a. 5
- b. 10
- c. 4
- d. 8
-
28. What is the value of $\frac{\frac{5}{11} \div \frac{7}{25} \times \frac{33}{28} + \frac{5}{12} \times \frac{2}{3} \div \frac{25}{27}}{\frac{6}{11} \times \frac{5}{12} \div \frac{15}{44}}$? (+1, -0.25)
- a. $\frac{9670}{1866}$
- b. $\frac{8408}{1955}$

c. $\frac{6507}{1960}$

d. $\frac{9567}{1860}$

29. A bag contains coins of Rs. 1, Rs. 2 and Rs. 5 in the ratio 5 : 10 : 6 respectively. The total amount in the bag is Rs. 275. How many Rs. 5 coins are in the bag? (+1, -0.25)

a. 30

b. 35

c. 20

d. 25

30. The ratio of A and B in an alloy is 2 : 5. If the alloy is made of only A and B, how much amount of B will be there in 210 kg of that alloy? (+1, -0.25)

a. 150 kg

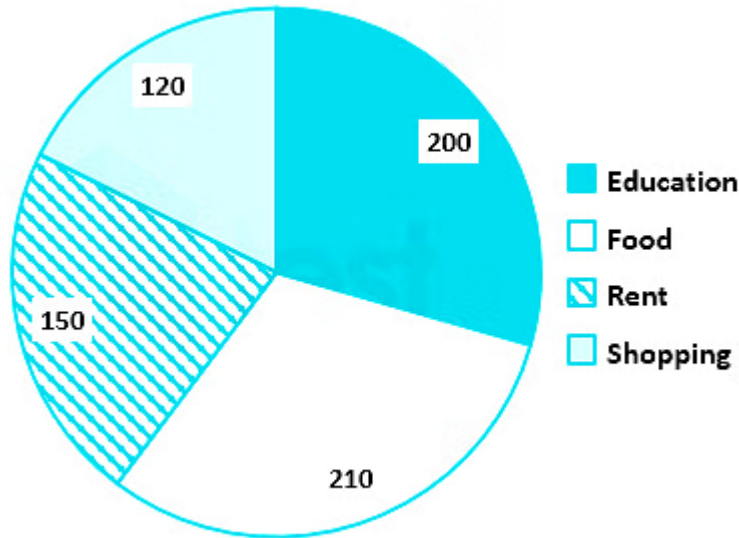
b. 135 kg

c. 60 kg

d. 180 kg

31. The following pie chart gives the ratio of various kinds of expenses of a particular family for a week. (+1, -0.25)

Various kinds of expenses



If the amount spent on shopping for the week is Rs. 1,000, what is the total amount spent on food?

- a. Rs. 1,450
- b. Rs. 1,750
- c. Rs. 1,650
- d. Rs. 1,550

32. The following table shows the demand and the production of the items made by four different companies. (+1, -0.25)

Company Name	Demand (no. of items)	Production (no. of items)
Company A	3500	1500
Company B	500	2000
Company C	2500	1000
Company D	1000	3500

How many extra number of items did company B produce over and above the number of items demanded from it?

- a. 2500
- b. 2000
- c. 1500
- d. 500

33. There are 45 students in a class. 80% of the students passed the exam. (+1, -0.25)
How many students failed in the exam?

- a. 8
- b. 9
- c. 5
- d. 11

34. In a classroom consisting of boys and girls, the average marks obtained (+1, -0.25)
by the boys is 90. If the average of the whole class is 92, and the ratio of

the number of boys to that of girls is 3 : 2, what is the average marks scored by the girls?

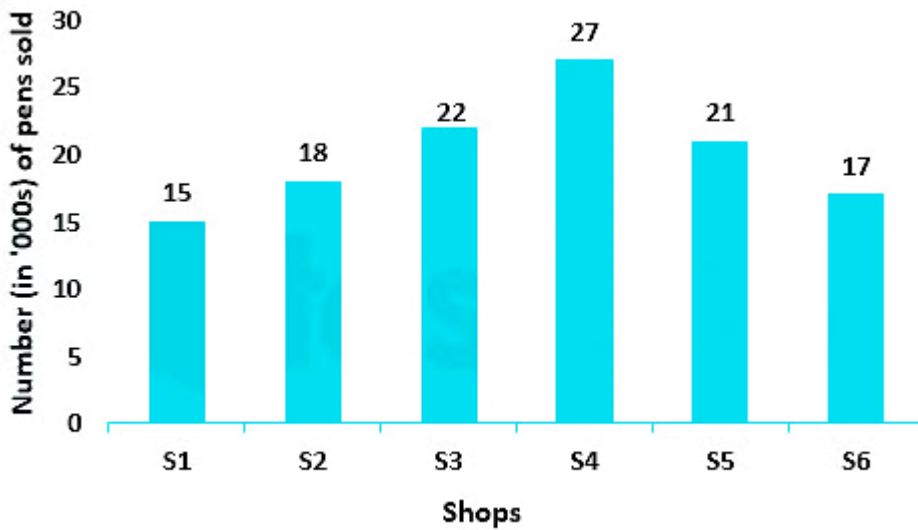
- a. 97
- b. 94
- c. 96
- d. 95

35. There are two numbers such that the first number is twice the second number. If their average is 30, then what is the positive difference between the two numbers? (+1, -0.25)

- a. 20
- b. 10
- c. 15
- d. 25

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36. The following bar chart shows the number of pens (in '000s) sold by 6 different shops during a given year. (+1, -0.25)



If the cost of each pen is Rs. 4.50, then what is the average revenue earned per shop?

- a. Rs. 92,000
- b. Rs. 96,000
- c. Rs. 84,000
- d. Rs. 90,000

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37. The simple interest on a sum deposited at 10% p.a. for 4 years is Rs. 20,000. What will be the compound interest on the same sum at half of the above rate of interest for 2 years, interest compounded yearly? (+1, -0.25)
- a. Rs. 5,010
 - b. Rs. 5,125
 - c. Rs. 5,020
 - d. Rs. 5,015

38. In an examination, 85% of the students passed. If 75 students failed, then how many students appeared for the examination? **(+1, -0.25)**

- a. 540
- b. 500
- c. 520
- d. 480

39. Simplify the following expression. **(+1, -0.25)**

$$15 - \{4 - (4 - 1)\} + 27$$

- a. 38
- b. 41
- c. 40
- d. 42

40. The area of a trapezium shaped field is 1785 square feet. The distance between the two parallel sides is 35 feet and one of the parallel sides is 42 feet long. What is the length of the other parallel side? **(+1, -0.25)**

- a. 60 feet
- b. 35 feet
- c. 65 feet
- d. 40 feet

41. The product of two numbers is 1296. If the highest common factor of the two numbers is 12, then what is the least common multiple of the two numbers? (+1, -0.25)

- a. 108
- b. 60
- c. 84
- d. 120

42. The average of 5 terms is 15. If the first 4 terms are 12, 17, 23, and 8, what will be the fifth term? (+1, -0.25)

- a. 30
- b. 15
- c. 22
- d. 20

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43. A 600-metre-long train is running at the speed of 45 km/h. How much time will the train take to completely cross a stationary pole? (+1, -0.25)

- a. 60 s
- b. 48 s
- c. 54 s
- d. 42 s

44. Two cubes, each having a total surface area of 150 cm^2 , are joined together to form a cuboid. Find the total surface area of the resulting cuboid. (+1, -0.25)

- a. 225 cm^2
- b. 250 cm^2
- c. 275 cm^2
- d. 300 cm^2

45. Samira can do a piece of work in 9 days. Sujata can do $\frac{1}{3}$ of the same work in 3 days. If Samira worked alone for 2 days and left, then, in how many days can Sujata alone complete the remaining work? (+1, -0.25)

- a. 7 days
- b. 8 days
- c. 9 days
- d. 12 days

46. If a person purchases an item at Rs. 3,000 and he sells it at 10% profit, then find the selling price of the item. (+1, -0.25)

- a. Rs. 3,200
- b. Rs. 3,100
- c. Rs. 3,300
- d. Rs. 3,400

47. Walking towards a bus stop at $\frac{5}{7}$ of his usual speed, Rakesh missed the bus by 10 minutes. What is the usual time that Rakesh takes to reach the bus stop just in time for the bus? (+1, -0.25)

- a. 30 minutes
- b. 20 minutes
- c. 15 minutes
- d. 25 minutes

48. Vijay sold a watch at a loss of 50%. If the loss is Rs. 2,400, then what is the selling price of the watch? (+1, -0.25)

- a. Rs. 1,200
- b. Rs. 2,400
- c. Rs. 4,800
- d. Rs. 3,600

49. The length of a rectangle is 4 times of its breadth. If the area of the rectangle is 576 cm^2 , then what is the perimeter of this rectangle? (+1, -0.25)

- a. 112 cm
- b. 60 cm
- c. 56 cm
- d. 120 cm

50. What will be the amount payable on maturity on a principal of Rs. 12,000, (+1, -0.25) invested for 3 years, at the rate of 10% per annum, compounded annually?
- a. Rs. 14,928
 - b. Rs. 15,972
 - c. Rs. 16,826
 - d. Rs. 18,922

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General English

51. Select the option that can be used as a one-word substitute for the given group of words. (+1, -0.25)

One who runs away from justice or a dangerous situation

- a. Sadist
- b. Altruist
- c. Insolvent
- d. Fugitive

-
52. Select the most appropriate meaning of the given idiom. (+1, -0.25)

Once in a blue moon

- a. Incessantly
- b. Frequently
- c. Occasionally
- d. Very rarely

-
53. Select the option that can be used as a one-word substitute for the given group of words. (+1, -0.25)

Having or forming a hard outer layer

- a. Crunched
- b. Crushed

- c. Crusted
 - d. Cursed
-

54. Select the correctly spelt word. (+1, -0.25)

- a. Amorphuous
 - b. Despottic
 - c. Contentous
 - d. Adamant
-

55. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

I am not gone to harm this dog.

- a. is not gone
 - b. are not going
 - c. am not going
 - d. No improvement required
-

56. Select the most appropriate option to fill in the blank. (+1, -0.25)

Ritu had gone out to drink water _____ her examination started.

- a. even

- b. whether
 - c. before
 - d. now
-

57. Select the most appropriate option to fill in the blank. (+1, -0.25)

I feel so lazy and _____ after doing any strenuous work.

- a. lively
 - b. sluggish
 - c. fortunate
 - d. bouncing
-

58. Select the most appropriate ANTONYM of the given word. (+1, -0.25)

Ambitious

- a. Vigorous
 - b. Lazy
 - c. Dynamic
 - d. Lively
-

59. Select the option that can be used as a one-word substitute for the given (+1, -0.25)
group of words.

The study of the heart and its action and disease

- a. Pharmacology
 - b. Anthropology
 - c. Cardiology
 - d. Microbiology
-

60. Select the most appropriate option to fill in the blank. (+1, -0.25)

My mother is a _____ and forgiving person.

- a. respective
 - b. vital
 - c. difficult
 - d. compassionate
-

61. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. (+1, -0.25)

San Francisco is more bigger/ than Boston in terms of/ population density.

- a. San Francisco is more bigger
 - b. than Boston in terms of
 - c. population density
 - d. No error
-

62. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

We have the responsibility of finding our daughter.

- a. to finding our
- b. of finding us
- c. No improvement required
- d. finding of our

-
63. Select the most appropriate meaning of the given idiom. (+1, -0.25)

Hit the nail on the head

- a. To be extremely hard working
- b. To be exactly right about something
- c. To be extremely cautious
- d. To injure someone fatally

-
64. Select the most appropriate ANTONYM of the given word. (+1, -0.25)

Fleeting

- a. Passing
- b. Feeble
- c. Brief

d. Lasting

65. Select the most appropriate synonym of the given word. (+1, -0.25)

Propitious

a. Conciliatory

b. Cogent

c. Inimical

d. Auspicious

66. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. (+1, -0.25)

In the primitive / oceans, / life begins / nearly 3.5 billion years ago.

a. nearly 3.5 billion years ago

b. life begins

c. In the primitive

d. oceans

67. Select the most appropriate synonym of the underlined word in the given sentence. (+1, -0.25)

Try to sound more innocent than sarcastic.

a. playful

b. mild

- c. caustic
 - d. rational
-

68. Select the correctly spelt word. (+1, -0.25)

- a. Tolrate
 - b. Toilerate
 - c. Tolreite
 - d. Tolerate
-

69. Select the most appropriate option to fill in the blank. (+1, -0.25)

I am _____ willing to sign this contract with your company.

- a. nor
 - b. none
 - c. not
 - d. no
-

70. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. (+1, -0.25)

Continuous heavy / rainfall may / further worse / the flood situation.

- a. further worse
- b. the flood situation

- c. Continuous heavy
- d. rainfall may

71. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Speech pathologists are (1) _____ in communication disabilities. They work within multidisciplinary health-care teams (2) _____ a variety of hospital and community-based sites. This (3) _____ working with medical, nursing, and allied health professionals such (4) _____ psychologists, occupational therapists, social (5) _____ and physiotherapists.

Select the most appropriate option to fill in blank number 1.

- a. quacks
- b. teachers
- c. experts
- d. relatives

72. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Speech pathologists are (1) _____ in communication disabilities. They work within multidisciplinary health-care teams (2) _____ a variety of hospital and community-based sites. This (3) _____ working with medical, nursing, and allied health professionals such (4) _____ psychologists, occupational therapists, social (5) _____ and physiotherapists.

Select the most appropriate option to fill in blank number 2.

- a. across
- b. after
- c. by
- d. about

73. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Speech pathologists are (1) _____ in communication disabilities. They work within multidisciplinary health-care teams (2) _____ a variety of hospital and community-based sites. This (3) _____ working with medical, nursing, and allied health professionals such (4) _____ psychologists, occupational therapists, social (5) _____ and physiotherapists.

Select the most appropriate option to fill in blank number 3.

- a. includes
- b. included
- c. include
- d. including

74. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Speech pathologists are (1) _____ in communication disabilities. They work within multidisciplinary health-care teams (2) _____ a variety of hospital and community-based sites. This (3) _____ working with medical, nursing, and allied health professionals such (4) _____ psychologists, occupational therapists, social (5) _____ and physiotherapists.

Select the most appropriate option to fill in blank number 4.

- a. than
- b. so
- c. like
- d. as

75. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Speech pathologists are (1) _____ in communication disabilities. They work within multidisciplinary health-care teams (2) _____ a variety of hospital and community-based sites. This (3) _____ working with medical, nursing, and allied health professionals such (4) _____ psychologists, occupational therapists, social (5) _____ and physiotherapists.

Select the most appropriate option to fill in blank number 5.

- a. migrants
- b. workers
- c. amateurs
- d. manuals

General Awareness

76. Who among the following freedom fighters of India was assassinated? (+1, -0.25)

- a. Jawaharlal Nehru
- b. Mahatma Gandhi
- c. Nana Sahib
- d. Bal Gangadhar Tilak

77. _____ was a Sarod player. (+1, -0.25)

- a. Buddhadev Das Gupta
- b. Bhajan Sopori
- c. Annapurna Devi
- d. Pt. Shiv Kumar Sharma

78. Which of the following is NOT an example of an abiotic component of the ecosystem? (+1, -0.25)

- a. Soil
- b. Wind
- c. Rainfall
- d. Animal

79. Manu writes about a sea which is so salty that it is very difficult to drown in it. Which sea is it? (+1, -0.25)

- a. Arabian Sea
- b. Dead Sea
- c. Green Sea
- d. Red Sea

80. Which of the following is the only active volcanic island in India? (+1, -0.25)

- a. Amindivi Island
- b. Laccadive Island
- c. Minicoy Island
- d. Barren Island

81. Which of the following compounds are also known as aliphatic compounds? (+1, -0.25)

- a. Aromatic compounds
- b. Acyclic compounds
- c. Cyclic compounds
- d. Benzenoid compounds

82. The Parliament of India is divided into _____ houses. (+1, -0.25)

- a. Five
 - b. Three
 - c. Four
 - d. Two
-

83. What does the R stand for in MICR? (+1, -0.25)

- a. Recognition
 - b. Reader
 - c. Route
 - d. Request
-

84. Megasthenes was an ambassador who was sent to the court of _____ by the _____ ruler. (+1, -0.25)

- a. Chandragupta Maurya, Greek
 - b. Babur, Greek
 - c. Shah Jahan, Chinese
 - d. Sikandar Lodhi, Chinese
-

85. A person is said to be in marginal employment if s/he has worked for fewer than _____ months in the year preceding the Census. (+1, -0.25)

- a. 12

- b. 6
 - c. 3
 - d. 9
-

86. Which of the following Articles of the Indian Constitution provides protection of life and personal liberty ? (+1, -0.25)

- a. Article 21
 - b. Article 370
 - c. Article 57
 - d. Article 250
-

87. What is the length of the side-line in field hockey? (+1, -0.25)

- a. 91.4 m
 - b. 72.3 m
 - c. 110.0 m
 - d. 102.1 m
-

88. Which of the following novels is authored by EM Forster? (+1, -0.25)

- a. Invisible Man
- b. Don Quixote
- c. A passage to India

d. Beloved

89. To which of the following classes do parrots belong? (+1, -0.25)

a. Mammalia

b. Reptilia

c. Aves

d. Amphibia

90. Which of the following is a traditional masked dance of West Bengal? (+1, -0.25)

a. Kavadi

b. Gidda

c. Gambhira

d. Jawara

91. The Lai Haraoba Festival is celebrated by the _____ (+1, -0.25)

a. Khasis

b. Sumis

c. Meitels

d. Deoris

92. Who among the following was the first transgender Bharatanatyam dancer to receive Padma Shri in 2019? (+1, -0.25)
- a. Naaz Joshi
 - b. Laxmi Narayan Tripathi
 - c. Manjamma Jogati
 - d. Narthaki Nataraj
-

93. Which of the following is NOT a cause of unemployment in India? (+1, -0.25)
- a. Slow economic growth
 - b. Increase in labour force
 - c. Lack of infrastructure development
 - d. Lack of housing facilities
-

94. Who among the following was NOT one of Akbar's 'Navratna' (nine gems)? (+1, -0.25)
- a. Raja Man Singh
 - b. Abul Fazal
 - c. Raja Todarmal
 - d. Rana Amar Singh
-

95. Which Mughal monument was built by the Mughal emperor Aurangzeb in the memory of his wife, Dilras Banu Begum? (+1, -0.25)

- a. Taj Mahal
- b. Bibi Tomb
- c. Rani Ki Vav
- d. Bibi Ka Maqbara

96. As on February 2022, who among the following was recently appointed as the UGC Chairman? (+1, -0.25)

- a. M Jagadesh Kumar
- b. Rajiv Saran
- c. Jagjeevan Desai
- d. Ravindra Katoti

97. Which of the following statements is correct regarding Simon commission? (+1, -0.25)

I. In 1927, the British government in England decided to send a commission headed by Lord Simon to decide India's Political future.

II. The commission had no Indian representative.

- a. Only I
- b. Only II
- c. Both I and II

d. Neither I nor II

98. Which team did Australia defeat in the final of ICC Men's T20 World Cup final played in November 2021? (+1, -0.25)

- a. New Zealand
 - b. England
 - c. India
 - d. Pakistan
-

99. The HVJ pipeline does NOT run through the state of _____. (+1, -0.25)

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

100. In March 2022, the _____ campaign was launched by Gajendra Singh Shekhawat, the Union Minister of Jal Shakti, for greywater management. (+1, -0.25)

- a. Donate-a-Pension
- b. Sujalam 2.0
- c. SAMARTH
- d. Stand Up India

Answers

1. Answer: d

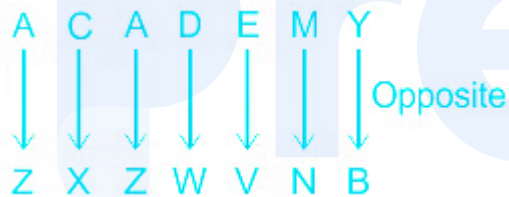
Explanation:

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 logic followed here is:

Letters is coded as their Opposite letter .

Here, ACADEMY : ZXZWNB



For, FINANCE : URMZMXV



Similarly, for PACKAGE : ?



Hence, the correct answer is "Option 4".

2. Answer: a

Explanation:

The paper when unfolded will appear as shown below:



Hence, 'Option 1' is the correct answer.

3. Answer: c

Explanation:

The logic followed here is:



So, 'PCI' will complete the series.

Hence, the correct answer is "PCI" .

4. Answer: c

Explanation:

Given equation: $516 - 2558 + 172 \times 12 \div 7086$

B	Brackets in order (), {}, []	ब्रैकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़े (+)
S	Subtraction (-)	घटाव (-)

Decoding the given information :

Symbol	-	×	+	÷
Means	×	+	÷	-

Now, replacing the sign from left to right and using BODMAS rule, we get :

New equation : $516 \times 2558 \div 172 + 12 - 7086$

Calculation :

$\Rightarrow \underline{516 \times 2558 \div 172} + 12 - 7086$

$\Rightarrow \underline{7674 + 12} - 7086$

$\Rightarrow 7686 - 7086$

$\Rightarrow 600.$

Hence, the correct answer is "600".

5. Answer: d

Explanation:

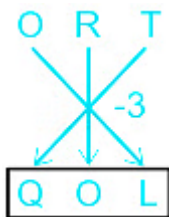
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

POK : HLM



Similarly, for ORT : ?



Hence, the correct answer is "Option 4".

6. Answer: a

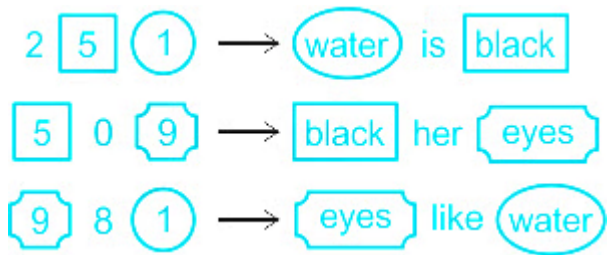
Explanation:

The logic followed here is:

'251' means 'Water is Black' .

'509' means 'Black Her Eyes' .

'981' means 'Eyes Like Water' .



Here,

Code for 'Water' is '1'.

Code for 'Black' is '5'.

Code for 'Is' is '2' .

Code for 'Eyes' is '9'.

Code for 'Her' is '0'.

Code for 'Like' is '8' .

Hence, the correct answer is "2".

7. Answer: b

Explanation:

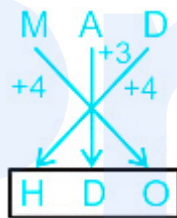
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

LON : RRN



Similarly, for MAD : ?



Hence, the correct answer is "Option 2" .

8. Answer: d

Your Personal Exams Guide

Explanation:

Statement:

No apples are trees.

Some trees are dense.

The least possible diagram for the given statements is as follows:



Conclusions:

- (i) Some apples are dense - False (Because No definite relation given between Apples and Dense, so it can be possible only).
- (ii) No tree is an apple - True (Because No apples are trees, so No Tree is an Apple).

Here, Only conclusion II follows.

Hence, the correct answer is "Option 4" .

9. Answer: b

Explanation:

The logic followed here is:



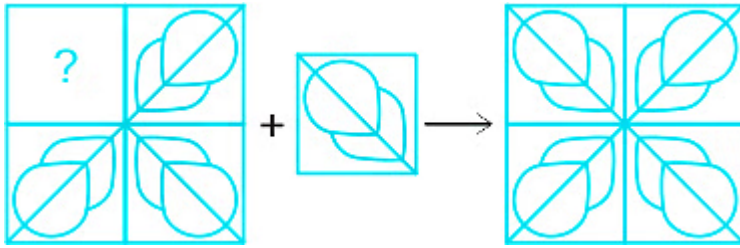
So, '1165' will replace the question mark in the series.

Hence, the correct answer is "1165" .

10. Answer: d

Explanation:

The image that completes the pattern is:



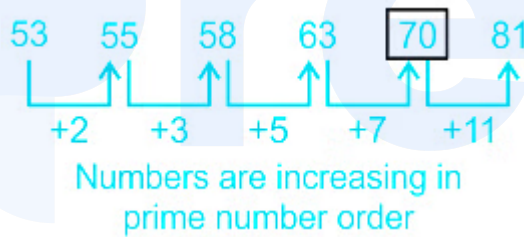
Hence, the correct answer is "Option 4".

11. Answer: c

Explanation:

The logic followed here is:

The numbers are increasing in Prime number order .











So, '70' will replace the question mark in the series.

Hence, the correct answer is "70".

12. Answer: c

Explanation:

The image embedded in given figure is as shown below:

No.	Option	Question	Answer
1.			Not Embedded
2.			Not Embedded
3.			Embedded
4.			Not Embedded

Hence, "Option 3" is the correct answer.

13. Answer: a

Explanation:

BODMAS Table:

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Given equation I: $105 \div 10 \times 75 + 25 - 12 = 3$

Now, if \div and \times , 25 and 12 are interchanged, then:

$$\Rightarrow 105 \times 10 \div 75 + 12 - 25 = 3$$

$$\Rightarrow 105 \times 0.133 + 12 - 25 = 3$$

$$\Rightarrow 13.965 + 12 - 25 = 3$$

$$\Rightarrow 25.965 - 25 = 3$$

$$= 0.965 \neq 3.$$

LHS \neq RHS.

Given equation II: $75 \times 12 \div 25 + 14 - 10 = 40$

Now, if \div and \times , 25 and 12 are interchanged, then:

$$\Rightarrow 75 \div 25 \times 12 + 14 - 10 = 40$$

$$\Rightarrow 3 \times 12 + 14 - 10 = 40$$

$$\Rightarrow 36 + 14 - 10 = 40$$

$$\Rightarrow 50 - 10 = 40$$

$$= 40 = 40$$

LHS = RHS.

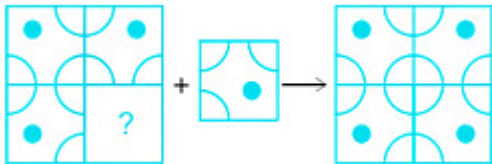
Here, Only II are correct equation after interchanging the given symbol and number.

Hence, the correct answer is "Option 1".

14. Answer: a

Explanation:

The image that completes the pattern is:



Hence, the correct answer is "Option 2".

15. Answer: b

Explanation:

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

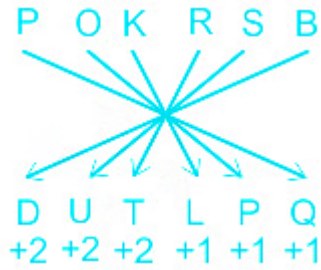
The logic followed here is:

Here,

'TRAIND' is written as 'FPKBSU'



And, 'POKRSB' is written as 'DUTLPQ'



Similarly, for ANLCGH : ?



So, 'ANLCGH' will be written as 'JIEMOB'.

Hence, the correct answer is "Option 2".

16. Answer: a

Explanation:

The logic followed here is:

'Grains contain wheat rice' is coded as '8 6 # %',

'Rice are hard grains' is coded as '# pr % lm'.

Grains contain wheat rice → 8 6 # %

rice are hard grains → # pr % lm

Here,

Code for Either 'Grains' or 'Rice' is '#' or '%'.

Hence, the correct answer is "1".

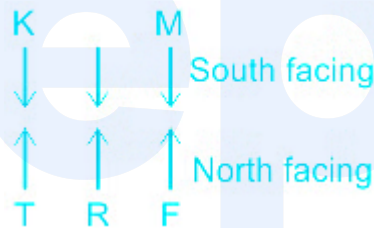
17. Answer: a

Explanation:

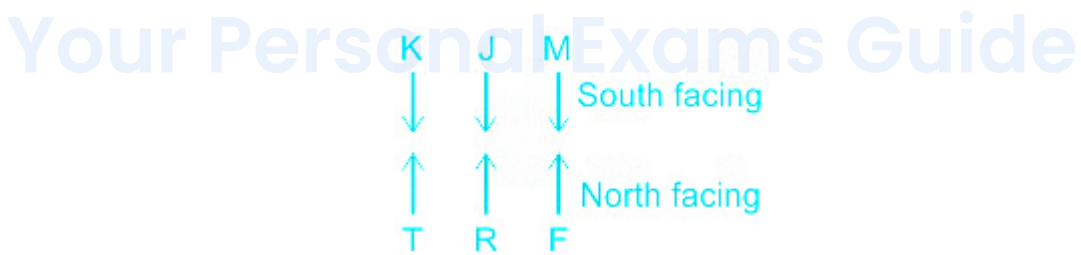
Given: Three males K, J and M facing south.

Three females R, F and T facing towards the face of these males.

- 1) K is second to the right of M.
- 2) R is the immediate neighbour of F and T.
- 3) R is to the immediate left of F.



And, J will sit on the remaining place.



After arrange the females in the alphabetical order of their names from the left end to the right end:



Here, after rearrangement of females only R will face the same male who they faced before this new arrangement.

So, only 'One' female will face the same male.

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

18. Answer: a

Explanation:

The logic followed here is:

(Sum of the digits of 1st number) \times 4 = 2nd number .

Now, for 225 : 36

$$\Rightarrow (2 + 2 + 5) \times 4$$

$$\Rightarrow 9 \times 4 = 36.$$

For, 257 : 56

$$\Rightarrow (2 + 5 + 7) \times 4$$

$$\Rightarrow 14 \times 4 = 56.$$

Similarly, for 358 : ?

$$\Rightarrow (3 + 5 + 8) \times 4$$

$$\Rightarrow 16 \times 4 = 64.$$

Hence, the correct answer is **"64"**.

19. Answer: a

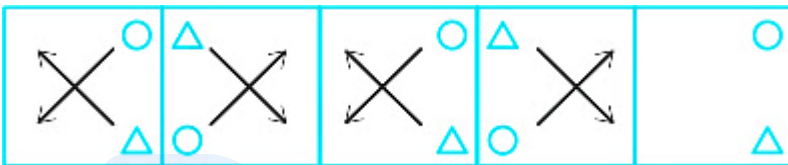
Explanation:

The logic followed here is:

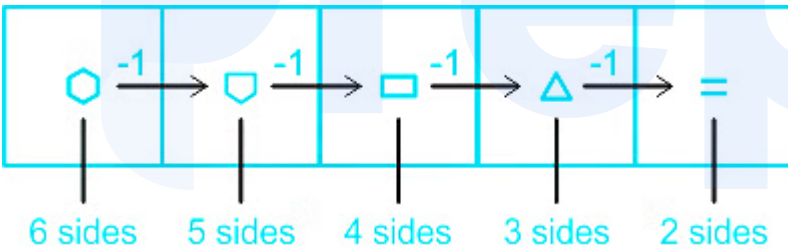
Step I:-



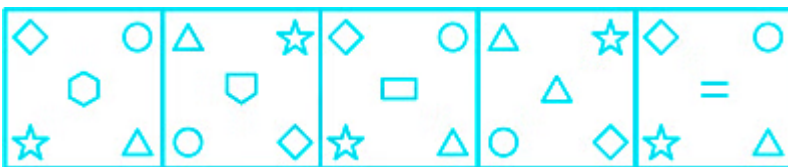
Step II:-



Step III: The sides are getting - 1 in the next boxes.



So, the series will be:



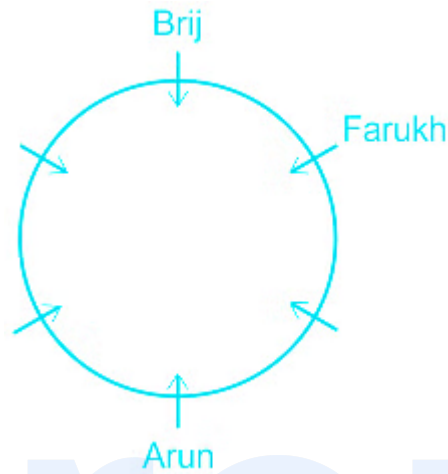
Hence, the correct answer is "Option 1".

20. Answer: d

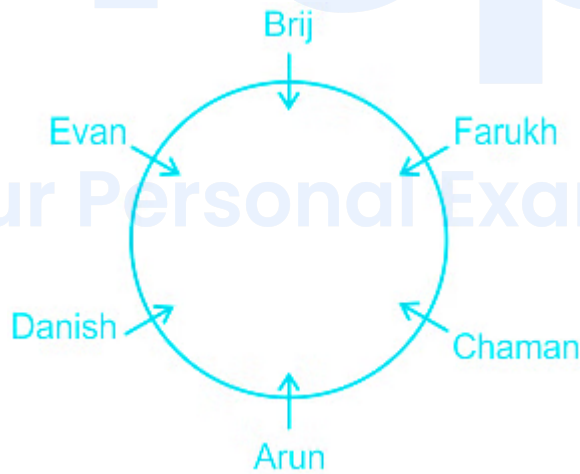
Explanation:

Given: Six persons – Arun, Brij, Chaman, Danish, Evan and Farukh.

- 1) Farukh is second to the right of Arun.
- 2) Brij is to the immediate right of Farukh.



- 3) Danish is second to the left of Chaman.
- And, Evan will sits on the remaining position.



'Chaman' sits third to the left of Evan.

Hence, the correct answer is "Chaman".

21. Answer: d

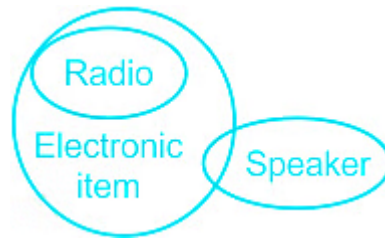
Explanation:

Statement:

All radios are electronic items.

Some speakers are electronic items.

The least possible diagram for the given statements is as follows:



Conclusions:

- (i) No radio is a speaker - False (Because No definite relation given between Radio and Speaker , so it can be possible only).
- (ii) Some radios are speakers - False (Because No definite relation given between Radio and Speaker, so it can be possible only).

Here, Both the conclusions are wrong, but it forms the complementary pair for Either-or.

So, Either conclusion I or II follows.

Hence, the correct answer is "Option 4" .

★ **Additional Information**

Complementary pairs for Either or case are:-

- 1) Some + No
- 2) All + Some not

Rules for Either or Case:-

1. Subject and Predicate of the element should be same.
 2. Two of the conclusions should be can't be determined.
 3. Both should form a complementary pair.
-

22. Answer: c

Explanation:

The logic followed here is:

$$(\text{1st number} + \text{2nd number})^2 = \text{3rd number} .$$

For, (4, 5, 81)

$$(4 + 5)^2 \Rightarrow (9)^2 = 81.$$

For, (2, 5, 49)

$$(2 + 5)^2 \Rightarrow (7)^2 = 49.$$

Similarly, for **Option 3) (3, 5, 64)**

$$(3 + 5)^2 \Rightarrow (8)^2 = 64.$$

Hence, the correct answer is "Option 3" .

23. Answer: a

Explanation:

Given: Six people, F, G, H, I, J and K.

1) I got the third lowest marks.

$$-- > -- > -- > I > -- > --$$

G got more marks than F and K.

F got more marks than I, but not the highest marks.

F got more marks than K but less than H.

G scored more marks than H.

$G > H > F > I > K > _ _$

K got more marks than J, but fewer marks than H.

$G > H > F > I > K > J$

F got 59 marks and K got 46 marks.

$G > H > F(59) > I > K(46) > J$

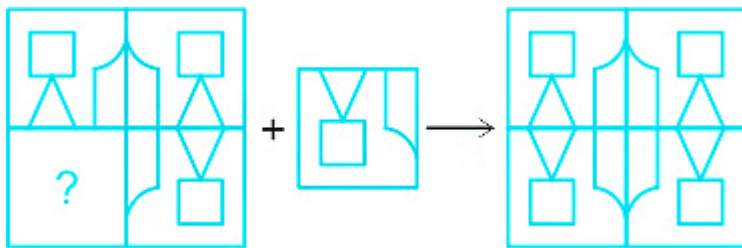
Here, G got the highest marks.

Hence, the correct answer is "G".

24. Answer: a

Explanation:

The image that completes the pattern is:



Hence, the correct answer is "Option 1".

25. Answer: c

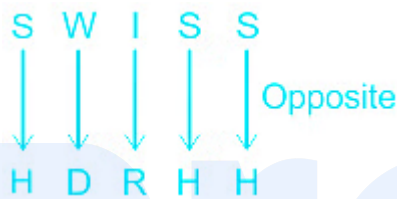
Explanation:

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

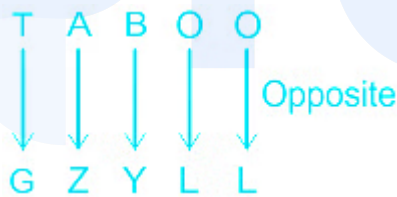
The logic followed here is:

Letters is coded as their Opposite letter .

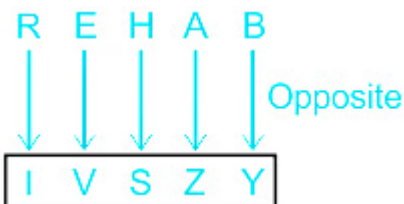
Here, 'SWISS' is written as 'HDRHH'



For, 'TABOO' is written as 'GZYL L'



Similarly, for 'REHAB'



So, 'REHAB' will be written as 'IVSZY'.

Hence, the correct answer is "Option 3" .

26. Answer: b

Explanation:

Given:

P can do work = 16 days

Q can do work = 24 days

R can do work = 48 days

Total Payment = Rs. 744

Concept Used:

Total work = Efficiency \times Time

Calculation

P = 16

Q = 24

R = 48

LCM = 48 (total work)

Efficiency of P = 3

Efficiency of Q = 2

Efficiency R = 1

As the efficiency of R is less than P and Q. So, R receives the less amount.

Amount received by R = $\frac{1}{6} \times 744 = \text{Rs. } 124$

\therefore Option 2 is the correct answer.

27. Answer: a

Explanation:

Given:

First Discount = 12%

Second Discount = d%

The marked price of an article = Rs. 20000

Selling Price = Rs. 16720

Formula used:

Selling Price = $(100 - \text{Discount\%})/100 \times \text{Marked Price}$

Calculation:

Selling Price = $(100 - \text{Discount\%})/100 \times \text{Marked Price}$

Selling Price = $(100 - 12\%)/100 \times (100 - d\%)/100 \times 20000$

$\Rightarrow 16720 = 88/100 \times (100 - d\%)/100 \times 20000$

$\Rightarrow 16720 = 88 \times (100 - d\%) \times 2$

$\Rightarrow 16720/176 = (100 - d\%)$

$\Rightarrow (100 - d\%) = 95$

$\Rightarrow d\% = 5\%$

\therefore Option 1 is the correct answer.

28. Answer: c

Explanation:

Given:

.....

$$\frac{\frac{5}{11} \div \frac{7}{25} \times \frac{33}{28} + \frac{5}{12} \times \frac{2}{3} \div \frac{25}{27}}{\frac{6}{11} \times \frac{5}{12} \div \frac{15}{44}}$$

Concept used:

Follow the BODMAS rule according to the table given below:

B	Brackets in order (), {}, []	ब्रैकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Calculation:

$$\Rightarrow \frac{\frac{5}{11} \div \frac{7}{25} \times \frac{33}{28} + \frac{5}{12} \times \frac{2}{3} \div \frac{25}{27}}{\frac{6}{11} \times \frac{5}{12} \div \frac{15}{44}}$$

$$\Rightarrow \frac{\frac{5}{11} \times \frac{25}{7} \times \frac{33}{28} + \frac{5}{12} \times \frac{2}{3} \times \frac{27}{25}}{\frac{6}{11} \times \frac{5}{12} \times \frac{44}{15}}$$

$$\Rightarrow \frac{\frac{125 \times 3}{196} + \frac{3}{10}}{\frac{2}{3}}$$

$$\Rightarrow \frac{\frac{3750 + 588}{1960}}{\frac{2}{3}}$$

$$\Rightarrow \frac{\frac{4338}{1960}}{\frac{2}{3}}$$

$$\Rightarrow \frac{4338 \times 3}{1960 \times 2}$$

$$\Rightarrow \frac{6507}{1960}$$

∴ Option 3 is the correct answer.

29. Answer: a

Explanation:

Given:

A bag contains coins of Rs. 1, Rs. 2 and Rs. 5 in the ratio 5 : 10 : 6.

Total amount in the bag = Rs. 275

Calculation:

Let the number of coins be $5x$, $10x$ and $6x$.

According to question,

$$\Rightarrow 1 \times 5x + 2 \times 10x + 5 \times 6x = 275$$

$$\Rightarrow 5x + 20x + 30x = 275$$

$$\Rightarrow 55x = 275$$

$$\Rightarrow x = 5$$

Number of Rs. 5 coins = $6x = 6 \times 5 = 30$ coins

\therefore Option 1 is the correct answer.

30. Answer: a

Explanation:

Given:

The ratio of A and B in an alloy is 2 : 5.

Total weight of alloy = 210 kg

Calculation:

Ratio of A and B in an alloy = 2 : 5

Amount of B in the alloy = $\frac{5}{7} \times 210$

⇒ 150 kg

∴ Option 1 is the correct answer.

31. Answer: b

Explanation:

Calculation:

Amount spent on shopping for the week is Rs. 1,000.

According to the pie chart,

Amount spent on shopping for the week is 120.

$$\Rightarrow 120 = 1000$$

$$\Rightarrow 1 = 1000/120$$

$$\Rightarrow 210 = 1000/120 \times 210$$

$$\Rightarrow 1750$$

Total amount spent on food = Rs. 1750

∴ Option 2 is the correct answer.

32. Answer: c

Explanation:

Calculation:

Number of items Demanded from Company B = 500

Number of items Produced by Company B = 2000

Extra number of items produced by Company B = $2000 - 500$

$\Rightarrow 1500$

\therefore Option 3 is the correct answer.

33. Answer: b

Explanation:

Given:

There are 45 students in a class.

80% of the students passed the exam.

Calculation:

Total number of students = 45

Percentage of passing students = 80%

Percentage of failed students = $100 - 80 = 20\%$

Number of failed students = $20/100 \times 45 = 9$

\therefore Option 2 is the correct answer.

34. Answer: d

Explanation:

Given:

Average marks obtained by the boys is 90.

Average of the whole class is 92.

The ratio of the number of boys to that of girls is 3 : 2.

Calculation:

Let the number of boys and girls be $3x$ and $2x$ respectively.

Average marks obtained by the boys is 90.

Total marks obtained by boys = $90 \times 3x = 270x$

Total of boys and girls in the class = $3x + 2x = 5x$

Average of the whole class is 92.

Total marks obtained by the class = $92 \times 5x = 460x$

Total marks obtained by the girls = $460x - 270x = 190x$

Average marked obtained by girls = $190x/2x = 95$

∴ Option 4 is the correct answer.

35. Answer: a

Explanation:

Given:

First number is twice the second number.

Their average = 30

Concept Used:

Average = Sum of numbers/Total numbers

Calculation:

Let the Second number be x .

First number = $2x$

Average = Sum of numbers/Total numbers

$$\Rightarrow 30 = (x + 2x)/2$$

$$\Rightarrow 3x = 60$$

$$\Rightarrow x = 20$$

Second Number = 20

First Number = $2 \times 20 = 40$

Positive difference = $40 - 20 = 20$

\therefore Option 1 is the correct answer.

36. Answer: d

Explanation:

Calculation:

Total number of pens sold by 6 different shops = $15 + 18 + 22 + 27 + 21 + 17 = 120$

Average of total number of pens sold by 6 different shops = $120/6 = 20$ (in '000s)

Cost of each pen is Rs. 4.50.

Average revenue earned per shop = 4.5×20 (in '000s)

$$\Rightarrow 90000$$

\therefore Option 4 is the correct answer.

37. Answer: b

Explanation:

Given:

Time = 4 years

Rate = 10%

Simple Interest (SI) = Rs. 20000

Formula used:

$$SI = (PRT)/100$$

$$CI = A - P$$

$$A = P(1 + R\%)^T$$

Calculations:

According to the questions,

$$20000 = (P \times 10 \times 4)/100$$

$$\Rightarrow P = 200000/4 = \text{Rs. } 50000$$

Now Amount,

$$A = 50000(1 + 5\%)^2$$

$$\Rightarrow A = 50000(21/20)^2$$

$$\Rightarrow A = 50000 \times 21/20 \times 21/20 = \text{Rs. } 55125$$

$$CI = A - P = 55125 - 50000 = \text{Rs. } 5125$$

\therefore The compound interest (in Rs.) will be Rs. 5125.

\therefore Option 2 is the correct answer.

38. Answer: b

Explanation:

Given:

85% of the students passed.

75 students failed.

Calculation:

Let the total number of students be 100.

Percentage of passed students = 85%

Percentage of failed students = $100 - 85 = 15\%$

Number of failed students = 75

$\Rightarrow 15\% = 75$

$\Rightarrow 1\% = 5$

$\Rightarrow 100\% = 500$

\therefore 500 students appeared for the examination.

\therefore Option 2 is the correct answer.

39. Answer: b

Explanation:

Given:

$$15 - \{4 - (4 - 1)\} + 27$$

Concept used:

Follow the BODMAS rule according to the table given below:

B	Brackets in order (), {}, []	ब्रैकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Calculation:

$$15 - \{4 - (4 - 1)\} + 27$$

$$\Rightarrow 15 - \{4 - 3\} + 27$$

$$\Rightarrow 15 - 1 + 27$$

$$\Rightarrow 14 + 27$$

$$\Rightarrow 41$$

∴ Option 2 is the correct answer.

40. Answer: a

Explanation:

Given:

The area of a trapezium shaped field is 1785 square feet.

The distance between the two parallel sides is 35 feet.

One of the parallel sides is 42 feet.

Formula Used:

Area of Trapezium = $\frac{1}{2} \times \text{sum of parallel sides} \times \text{height}$

Calculation:

Let the other parallel side be x feet.

Height = 35 feet

Area = 1785 square feet

One parallel side = 42 feet

Area of Trapezium = $\frac{1}{2} \times \text{sum of parallel sides} \times \text{height}$

$$\Rightarrow 1785 = \frac{1}{2} \times (42 + x) \times 35$$

$$\Rightarrow (1785 \times 2) / 35 = 42 + x$$

$$\Rightarrow 51 \times 2 = 42 + x$$

$$\Rightarrow x = 102 - 42$$

$$\Rightarrow x = 60$$

\therefore Other parallel side = 60 feet

\therefore Option 1 is the correct answer.

41. **Answer: a**

Explanation:

Given:

The product of two numbers is 1296.

Highest common factor of the two numbers is 12.

Formula Used:

Product of two numbers = HCF \times LCM

Calculation:

Product of two number = 1296

HCF = 12

Product of two numbers = HCF \times LCM

$\Rightarrow 1296 = 12 \times \text{LCM}$

$\Rightarrow \text{LCM} = 1296/12$

$\Rightarrow \text{LCM} = 108$

\therefore Option 1 is the correct answer.

42. Answer: b

Explanation:

Given:

The average of 5 terms is 15.

The first 4 terms are 12, 17, 23 and 8.

Concept Used:

Average = Sum of numbers/Total Numbers

Calculation:

Let the fifth term be x.

$$\text{Average} = 15$$

$$\text{Sum of first 5 terms} = 12 + 17 + 23 + 8 + x = 60 + x$$

$$\text{Average} = \text{Sum of numbers} / \text{Total Numbers}$$

$$\Rightarrow 15 = (60 + x) / 5$$

$$\Rightarrow 60 + x = 75$$

$$\Rightarrow x = 15$$

\therefore Fifth term is 15

\therefore Option 2 is the correct answer.

43. Answer: b

Explanation:

Given:

$$\text{Length of train} = 600 \text{ m}$$

$$\text{Speed} = 45 \text{ km/h}$$

Concept Used:

$$\text{Time} = \text{Distance} / \text{Speed}$$

$$\text{Speed in m/sec} = 5/18 \times \text{Speed in km/h}$$

Calculation:

$$\text{Length of train} = 600 \text{ m}$$

$$\text{Speed} = 45 \text{ km/h}$$

$$\text{Speed in m/sec} = 5/18 \times \text{Speed in km/h}$$

$$\text{Speed in m/sec} = 5/18 \times 45 = 25/2 \text{ m/sec}$$

$$\text{Time} = \text{Distance/Speed}$$

$$\Rightarrow 600/12.5 = 48\text{s}$$

∴ Option 2 is the correct answer.

44. Answer: b

Explanation:

Given:

$$\text{Surface area of each cube} = 150 \text{ cm}^2$$

Formula Used:

$$\text{Total Surface Area of cube} = 6 \times \text{side}^2$$

$$\text{Total Surface Area of cuboid} = 2 \times (lb + bh + hl)$$

where, $l \rightarrow$ length of cuboid, $b \rightarrow$ breadth of cuboid and $h \rightarrow$ height of cuboid.

Calculations:

$$\text{Surface area of each cube} = 150 \text{ cm}^2$$

$$\text{Total Surface Area of cube} = 6 \times \text{side}^2$$

$$\Rightarrow 6 \times \text{side}^2 = 150$$

$$\Rightarrow \text{side} = 5 \text{ cm}$$

$$\text{Length of cuboid} = l = (5 + 5) \text{ cm}$$

$$\Rightarrow l = 10 \text{ cm}$$

$$\text{Breadth of cuboid} = b = 5 \text{ cm}$$

Height of cuboid = $h = 5$ cm

Total Surface Area of cuboid = $2 \times (lb + bh + hl)$

\Rightarrow Total Surface Area of cuboid = $2 \times (10 \times 5 + 5 \times 5 + 5 \times 10)$ cm²

\Rightarrow Total Surface Area of cuboid = 250 cm²

\therefore The total surface area of this cuboid is 250 cm².

\therefore Option 2 is the correct answer.

45. Answer: a

Explanation:

Given:

Samira can do a piece of work in 9 days.

Sujata can do $\frac{1}{3}$ of the same work in 3 days.

Concept Used:

Total work = Efficiency \times Time

Calculation:

Samira can complete the work in 9 days.

Sujata completes $\frac{1}{3}$ of the work in 3 days.

Sujata completes the work in 9 days.

Total work = LCM(9, 9) = 9

Efficiency of Samira = $9/9 = 1$

Efficiency of Sujata = $9/9 = 1$

Samira 2 days work = 2 unit

Remaining work = $9 - 2 = 7$ unit

Sujata complete 7 unit of work = $7/1 = 7$ days

∴ Option 1 is the correct answer.

46. Answer: c

Explanation:

Given:

A person purchases an item at Rs. 3,000.

Profit = 10%

Formula Used:

Selling Price = $(100 + \text{Profit\%})/100 \times \text{CP}$

Calculation:

CP = Rs.3000

Profir = 10%

Selling Price = $(100 + \text{Profit\%})/100 \times \text{CP}$

⇒ $110/100 \times 3000$

⇒ Rs. 3300

∴ Option 3 is the correct answer.

47. Answer: d

Explanation:

Calculation:

Time is inversely proportional to speed.

Let usual speed of the person be $7x$

Speed of the person after decreasing = $5x$

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

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

$$\Rightarrow 7x - 5x = 10$$

$$\Rightarrow x = 5$$

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

\therefore Option 4 is the correct answer.

48. Answer: b

Explanation:

Given:

Vijay sold a watch at a loss of 50%.

Loss = Rs. 2400

Concept Used:

Loss = CP - SP

Loss% = $\frac{\text{Loss}}{\text{CP}} \times 100$

Calculation:

Let the cost price be Rs. x .

Vijay sold a watch at a loss of 50%.

It means he sold the watch at 50% of x .

SP of watch = $0.5x$

Loss = CP - SP

$\Rightarrow 2400 = x - 0.5x$

$\Rightarrow 0.5x = 2400$

\therefore SP = Rs. 2400

\therefore Option 2 is the correct answer.

49. Answer: d

Explanation:

Given:

The length of a rectangle is 4 times of its breadth.

Area of the rectangle = 576 cm^2

Concept Used:

Area of rectangle = Length \times Breadth

Perimeter of rectangle = $2(\text{Length} + \text{Breadth})$

Calculation:

The length of a rectangle is 4 times of its breadth.

Let the breadth be $x \text{ cm}$.

$$\text{Length} = 4x \text{ cm}$$

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

$$\Rightarrow 576 = x \times 4x$$

$$\Rightarrow x^2 = 144$$

$$\Rightarrow x = 12$$

$$\text{Breadth} = 12 \text{ cm}$$

$$\text{Length} = 4 \times 12 = 48 \text{ cm}$$

$$\text{Perimeter of rectangle} = 2(\text{Length} + \text{Breadth})$$

$$\Rightarrow 2(48 + 12)$$

$$\Rightarrow 2 \times 60$$

$$\Rightarrow 120 \text{ cm}$$

\therefore Option 4 is the correct answer.

50. Answer: b

Explanation:

Given:

$$\text{Principal} = \text{Rs. } 12000$$

$$\text{Rate} = 10\%$$

$$\text{Time} = 3 \text{ years}$$

Formula Used:

$$\text{Amount} = P(1 + R\%)^t$$

Calculation:

$$\text{Amount} = P(1 + R\%)^t$$

$$\Rightarrow 12000(1 + 10\%)^3$$

$$\Rightarrow 12000(11/10)^3$$

$$\Rightarrow 12 \times 1331$$

$$\Rightarrow \text{Rs. } 15972$$

∴ Option 2 is the correct answer.

51. Answer: d

Explanation:

The correct answer is **Fugitive**.

★ Key Points

- The most appropriate one-word substitute for the "One who runs away from justice or a dangerous situation" is "Fugitive".
- **Fugitive**: A person who is evading the police or sheltering in a risky circumstance.
 - **Example**: A man escaped from the police station and was being sought as a fugitive.

Therefore, as per the points mentioned above, the correct option is **Fugitive**.

★ Additional Information

- A **sadist** refers to a person who enjoys torturing or inflicting harm on others.
- **Altruist** refers to a person who, without expecting anything in return, cares for others and lends a hand.
- **Insolvent** means a lack of funds (particularly for a business) to cover obligations, make purchases, etc.

52. Answer: d

Explanation:

The correct answer is Very rarely.

★ Key Points

- The most appropriate meaning of the given idiom "Once in a blue moon" is "Very rarely."
- Once in a blue moon refers to something that happens not very often.
 - Example: *I see Manish once in a blue moon, he is very busy nowadays.*
- Therefore, as per the points mentioned above, we find that the correct answer is Very rarely.

★ Additional Information

- Let's look at the meaning and examples of some idioms of the play "Moon."

Idioms	Meaning	Example
Over the moon	Someone is extremely happy about something	<i>She was over the moon when she learnt about the trip.</i>
Promise the moon	Someone who promises the impossible	<i>He promised the moon to her when they went on a business trip.</i>

53. Answer: c

Explanation:

The correct answer is **Crusted** .

★ Key Points

- The most appropriate one-word substitute for "Having or forming a hard outer layer" is "Crusted".
- **Crusted** : Something with a tough exterior coating or covering.
 - Example : *Her feet were crusted with mud.*

Therefore, as per the points mentioned above, the correct option is **Crusted**.

★ Additional Information

- **Crunched** refers to firmly biting down on tough food while making a loud noise, or to simulate crushing or breaking something.
- **Crushed** refers to forcefully squeezing something until it breaks or loses its structure.
- **Cursed** is a term that is used to express anger about anything that annoys you.

54. Answer: d

Explanation:

The correct answer is **Adamant** .

★ Key Points

- "**Adamant**" is the correct spelling.
- The spellings of other words are absolutely incorrect.
- **Adamant** refers to someone who is difficult or unwilling to change an idea or judgement.
 - **Example:** *I have told her not to come here but she is adamant that she is coming here.*

The correct spelling is **Adamant** .

★ Additional Information

- The correct spelling of **Amorphuous** is **Amorphous** which means non-crystalline substances devoid of long-range order.

- The correct spelling of **Despottic** is **Despotic** which means someone who abuses their authority over others in a brutal or unfair manner.
 - The correct spelling of **Contentous** is **Contentious** which means a person who is prone to conflict or quarrel.
-

55. Answer: c

Explanation:

The correct answer is **Am not going**.

★ Key Points

- "Am not going" is grammatically incorrect in this sentence.
- The correct usage is "Am not going" instead of "am not gone."
- **The tense used in this sentence is Present Continuous Tense.**
- The Present Continuous Tense indicates that an action or condition is happening now, frequently, and may continue into the future.
 - Structure of Past Perfect tense: **Subject + is/am/are + first form of the verb + ing + Object.**
 - **Example:** *She is leaving for her job.*

The correct sentence is: **I am not going to harm this dog.**

56. Answer: c

Explanation:

The correct answer is **Before** .

★ Key Points

- Among the given options the correct option to be filled in the blank is **Before**.
- "**Before**" functions as an adverb, a preposition, and a conjunction. Before indicates before the specified time or event.

- **Example:** *I should meet him before the time he goes to the US.*
- Thus, the correct option is **Before**.

The correct sentence is: **Ritu had gone out to drink water before her examination started.**

57. Answer: b

Explanation:

The correct answer is **Sluggish**.

★ Key Points

- In the given options the correct option to be filled in the blank is Sluggish.
- Sluggish: Moving or acting more slowly, and using less energy or power, than normal.
 - **Example:** *Having lunch in the office makes me sluggish.*
- Thus, the correct option is Sluggish.

The correct sentence is: **I feel so lazy and sluggish after doing any strenuous work.**

★ Additional Information

- **Lively** means energetic and enthusiastic; fascinating and exhilarating.
 - **Fortunate** refers to someone who is lucky.
 - **Bouncing** refers to someone who is healthy and energetic (especially a baby).
-

58. Answer: b

Explanation:

The correct answer is **Lazy**.

★ Key Points

- **Ambitious** refers to someone who has a strong desire to be prosperous, powerful, or successful.
 - **Example:** *She has some ambitious plans to become a lawyer.*
- **Lazy** means someone who is unwilling to put in any effort or work.
 - **Example:** *She is very lazy, and that is why she has been fired from her job.*
- **Ambitious** and **Lazy** have different meanings.

Therefore, the correct option is **Lazy**.

★ Additional Information

- **Vigorous** means highly vigorous or energising.
- **Dynamic** means having a lot of energy and ideas.
- **Lively** means energetic and enthusiastic; fascinating and exhilarating.

59. Answer: c

Explanation:

The correct answer is **Cardiology**.

★ Key Points

- The most appropriate one-word substitute for " **The study of the heart and its action and disease** " is " **Cardiology** ".
- **Cardiology:** The examination and treatment of heart-related illnesses
 - Example : *My father is a cardiologist.*

Therefore, as per the points mentioned above, the correct option is **Cardiology**.

★ Additional Information

- **Pharmacology** refers to the study of drugs and medications, including their use, actions, and physiological effects.
- **Anthropology** refers to the examination of the human race, including its physical growth, culture, and social structure.

- **Microbiology** refers to the research on incredibly small living organisms, including bacteria.
-

60. **Answer: d**

Explanation:

The correct answer is **Compassionate**.

★ Key Points

- In the given options the correct option to be filled in the blank is Compassionate.
- **Compassionate:** Feeling or demonstrating regret or sympathy for the suffering or misfortune of others and a desire to assist them.
 - **Example:** *She is a deeply compassionate woman.*
- Thus, the correct option is **Compassionate**.

The correct sentence is: **My mother is a Compassionate and forgiving person.**

★ Additional Information

- **Respective** refers to pertaining to or belonging to each of the distinct individuals or objects you just named.
 - **Vital** refers to something that is absolutely essential to its success or continuation.
 - **Difficult** refers to something which is not nice, easy to work with, or acting well.
-

61. **Answer: a**

Explanation:

The correct answer is **San Francisco is more bigger.**

★ Key Points

- "San Francisco is more bigger" is grammatically incorrect in this sentence.
- The correct usage is "San Francisco is bigger" instead of "San Francisco is more bigger."
- **Comparative adjectives** can be formed by adding either more or less in front of the original adjective.
 - **Example:** *She is more interesting than him.*
- **Using both comparative adjectives is an error.**
 - **Example:** *Elena is more smarter than Caroline. (Incorrect)*

Elena is smarter than Caroline. (Correct)

The correct sentence is: **San Francisco is bigger than Boston in terms of population density.**

62. Answer: c

Explanation:

The correct answer is **No improvement required.**

★ Key Points

- In the underlined segment of the sentence, **no improvement or correction is required.**
- The given sentence is talking about the **responsibility of the parents to find their daughter.**
- The given sentence is given in the **Present Tense.**
- **Responsibility:** Something that you have a duty to handle.
 - **Example:** *Who has the responsibility of decorating the school?*

63. Answer: b

Explanation:

The correct answer is **To be exactly right about something**.

★ Key Points

- The most appropriate meaning of the given idiom "Hit the nail on the head" is "To be exactly right about something ."
- **Hit the nail on the head** refers to being completely accurate about something.
 - **Example:** *He hit the nail on the head when he told the qualities of the school.*
- Therefore, as per the points mentioned above, we find that the correct answer is **To be exactly right about something** .

★ Additional Information

- Let's look at the meaning and examples of some idioms of the play "Hit."

Idioms	Meaning	Example
Hit the ground running	to begin something right immediately with tremendous enthusiasm, without more instruction, training, or support	<i>I am ready to hit the ground in the morning. I am all prepared for the interview.</i>
Hit the dust	when a failure isn't extreme or catastrophic, but just that it didn't happen	<i>I was working on this interview all night hoping to get the job but in the end, it just hit the dust.</i>

64. Answer: d

Explanation:

The correct answer is **Lasting** .

★ Key Points

- **Fleeting** refers to something that is short or quick.

- **Example:** *She just had a fleeting visit.*
- Lasting means enduring for a very long time or forever.
 - **Example:** *She made a lasting impression on teachers.*
- Fleeting and Lasting have different meanings.

Therefore, the correct option is Lasting .

★ Additional Information

- **Passing** means Kicking, throwing, or striking the ball to a member of your own team when playing sports.
- **Feeble** means weak and devoid of force, energy, or strength.
- **Brief** means being short in duration or having few words.

65. Answer: d

Explanation:

The correct answer is **Auspicious** .

★ Key Points

- **Propitious** means displaying promise of success or likelihood of success.
 - **Example** : *It is a propitious time to make a big investment in the company.*
- **Auspicious** means predicting a happy and prosperous future.
 - **Example:** *My interview was not Auspicious.*
- "**Propitious** " and "**Auspicious**" are similar in meaning.

Therefore, the correct option is Auspicious.

★ Additional Information

- **Conciliatory** means expressing a desire to resolve a conflict or making an effort to calm someone down.
- **Cogent** means something which is well-written and compelling.
- **Inimical** means something which is harmful or limiting.

66. Answer: b

Explanation:

The correct answer is **Life begins**.

★ Key Points

- "Life begins" is grammatically incorrect in this sentence.
- The correct usage is "**Life began**" instead of "Life begins."
- The given sentence is talking about the time 3.5 billion years ago.
- The sentence is in **Simple Past Tense**.
- Structure of Simple Past Tense: **Subject + second form of verb + Object**.
 - **Example:** *She played Tennis for a long time.*

The complete sentence is: **In the primitive oceans, life began nearly 3.5 billion years ago.**

67. Answer: c

Explanation:

The correct answer is **Caustic**.

★ Key Points

- **Sarcastic** means using comments that are obviously misinterpreted in order to offend someone or jokingly criticise something.
 - **Example :** *She is being sarcastic .*
- **Caustic** means a statement or tone that is unpleasant, critical, or purposefully unkind.
 - **Example:***He is famous in his school for his caustic will.*
- "Sarcastic" and "Caustic" are similar in meaning.

Therefore, the correct option is **Caustic**.

★ Additional Information

- **Playful** means someone who is funny and not serious.
 - **Mild means** something which is not violent, severe, or extreme
 - **Rational** denotes a person who is founded on reason and clear reasoning.
-

68. **Answer: d**

Explanation:

The correct answer is **Tolerate** .

★ Key Points

- "Tolerate" is the correct spelling.
- The spellings of other words are absolutely incorrect.
- Tolerate refers to accepting actions and viewpoints that differ from your own, even if you don't agree with or support them.
 - Example: *Our teacher warned us that she will not tolerate this kind of behaviour.*

The correct spelling is Tolerate .

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69. **Answer: c**

Explanation:

The correct answer is **Not** .

★ Key Points

- In the given options the correct option to be filled in the blank is **Not**.
- One of the most popular words we employ to express negation or rejection is "**not**." It is frequently conjoined to an auxiliary verb or modal verb.
 - **Example:** *She is not going to school.*

- Thus, the correct option is **Not**.

The correct sentence is: **I am not willing to sign this contract with your company.**

★ Additional Information

- When the first alternative is introduced by "neither," we use "**nor**" before the second or further alternative.
- The adverb "**none**" can signify "to no extent, in no manner, not at all," but it is most frequently employed as a pronoun.
- "**No**" is used before a noun phrase.

70. **Answer: a**

Explanation:

The correct answer is **Further worse**.

★ Key Points

- "**Further worse**" is grammatically incorrect in this sentence.
- The correct usage is "**Further worsen**" instead of "**Further worse**."
- When things go from terrible to even more terrible, we use the word "**worsen**."
 - **Example:** Conditions in the village worsened.
- In the given sentence, the flood condition became more terrible because of the continuous heavy rainfall. That is why the word "**worsen**" should be used.

The correct sentence is: **Continuous heavy rainfall may further worsen the flood situation.**

71. **Answer: c**

Explanation:

The correct answer is **Experts**.

★ Key Points

- In the given options the correct option to be filled in the blank is **Experts**.
- **Experts**: A person who possesses a high level of knowledge in a specific field or activity
 - **Example:** *She is an expert in chess.*
- Thus, the correct option is **Experts**.

The correct sentence is **Speech pathologists are experts in communication disabilities.**

★ Additional Information

- **Quacks** refer to imitating the duck's typical call.
- **Teachers** refer to someone who works as an educator in a university or school.
- **Relatives** refer to a member of your family.

72. Answer: a

Explanation:

The correct answer is **Across** .

★ Key Points

- In the given options the correct option to be filled in the blank is **Across**.
- We use "**across**" as an adverb and a preposition (prep) (adv).
- The term "**across**" refers to being on the opposing side of something or moving from one side to the other of something with sides or boundaries.
 - Example: *He is opened his shop across the town.*
- Thus, the correct option is **Across**.

The correct sentence is: **They work within multidisciplinary healthcare teams across a variety of hospital and community-based sites.**

★ Additional Information

- As a preposition, "**about**" means "on the subject of" or "related with."
- "**After**" denotes a later time or place and the following. Additionally, it might come before a noun phrase (as a preposition).
- When referring to plans and deadlines, we use the word "**by**," which means "not later than."

73. **Answer: a**

Explanation:

The correct answer is **Includes** .

★ Key Points

- In the given options the correct option to be filled in the blank is **Includes**.
- The given passage is in Simple Present Tense.
- "**Simple Present Tense**" is used in sentences to describe actions or events that are currently occurring or have recently occurred within the context of the sentence. It is also known as "**Present Indefinite Tense**."
 - Structure: **Subject + first form of verb + s/es/ies + Object**.
 - **Example:** *She prefers cold coffee.*
- Thus, the correct option is **Includes**.

The correct sentence is: **This includes working with medical, nursing, and allied health professionals.**

74. **Answer: d**

Explanation:

The correct answer is **As**.

★ Key Points

- In the given options the correct option to be filled in the blank is **As**.

- We use "As" to describe the level of something in comparisons
 - Example: *She wants to eat something sweet such as chocolate, cake etc.*
- Thus, the correct option is As.

The correct sentence is: **This includes working with medical, nursing, and allied health professionals such as psychologists, and occupational therapists.**

★ Additional Information

- "Than" is used to connect two comparing components.
- "So" refers to significantly, greatly, or to such an extent.
- "Like" refers to significantly, enormously, or in such a way.

75. Answer: b

Explanation:

The correct answer is Workers.

★ Key Points

- In the given options the correct option to be filled in the blank is **Workers**.
- **Workers**: Someone who is employed by a business or organisation but does not hold a position of authority.
 - **Example:** *The CEO of our company treats the workers as his own family.*
- Thus, the correct option is As.

The correct sentence is: This includes working with medical, nursing, and allied health professionals such as psychologists, and occupational therapists **social workers and physiotherapists.**

★ Additional Information

- **Migrants** refer to a person who relocates to another nation or location, frequently in search of employment.
- **Amateurs** refer to engaging in a task for enjoyment rather than as a job.
- **Manuals** refer to something which is done by hand.

76. Answer: b

Explanation:

The Correct Answer is Mahatma Gandhi.

★ Key Points:

- On 30th Jan 1948, Mahatma Gandhi was assassinated by Nathuram Godse in the year 1948.
- On this day, India observes Martyrs Day or Shaheed Diwas.
- It is observed to pay homage to **Mahatma Gandhi** and all **martyrs who sacrificed their life** for the **nation's freedom**.
- He was born on 2 October 1869.
- Their political career Gandhi started in South Africa where he launched a Civil Disobedience Movement against the maltreatment meted out to Asian settlers.
- In 1915, he returned to India and took up the leadership of the National Freedom Struggle.
- Mahatma Gandhi led the national freedom struggle against British rule.
- Gandhiji launched many movements to force the British to concede India its Independence.
- The well-known are is Non-Co-operation Movement (1920), Civil Disobedience Movement (1930), and the Quit India Movement (1942).
- Gandhi wrote his famous autobiography under the title 'My Experiments with Truth'.
- Mahatma Gandhi is better known as the father of the Nation.

Jawaharlal Nehru -

★ Additional Information

- Nehru was one of the first nationalist leaders to realize the sufferings of the people in the states ruled by Indian princes.
- The nationalist movement had been confined to the territories under direct British rule.

- He helped to make the struggle of the people in the princely states a part of the nationalist movement for independence.
- He gave the responsibility for planning the economy of a future India and appointed the National Planning Commission in 1938 to help frame such policies.
- He chaired the Planning Commission before and after independence.
- The first meeting of the congress was held from 15 to 17 January 1914 at the premises of the Asiatic Society, Calcutta.
- Honorable justice Sir Ashutosh Mukherjee, the then Vice-Chancellor of the University of Calcutta presided over the Congress.
- The 34th Annual Session of the Indian Science Congress was held in Delhi on 3–8 January 1947 with Pandit Jawaharlal Nehru as General President.
- Pandit Nehru's personal interest in the Science Congress continued and there was hardly any session that he did not attend.
- Motilal Nehru authored the Nehru report.

Nana sahib:

- Nana Sahib, by name of Dhondu Pant, a prominent leader in the Indian Mutiny of 1857–58.
- Adopted in 1827 by Bajji Rao II, the last Maratha Peshwa, Nana Sahib was educated as a Hindu nobleman.
- The refusal of his claim and threats of the sepoy led him to join the sepoy battalions at Kanpur in rebellion in June 1857.

Bal Gangadhar Tilak:

- He was born on 23rd July 1856 in Ratnagiri, Maharashtra.
- Tilak joined Congress in 1890.
- He was opposed to moderate ways and views and had a more radical and aggressive stance against British rule.
- He was one of the first advocates of Swaraj or self-rule. He gave the slogan, "Swaraj is my birthright and I shall have it."
- He believed that no progress was possible without self-rule.
- He was part of the extremist faction of the INC and was a proponent of boycotts and Swadeshi movements.

- He published two papers – Kesari in Marathi and Mahratta in English.
- He was fearless in his criticism of the government in these papers.
- He was sentenced to 18 months imprisonment on charges of “incitement to murder”. He had written that killers of oppressors could not be blamed, quoting the Bhagavad Gita.
- Along with Bipin Chandra Pal and Lala Lajpat Rai, he was called the ‘Lal-Bal-Pal’ trio of extremist leaders.
- He was one of the founders of the All India Home Rule League, along with Annie Besant and G S Khaparde.
- For his political ideals, Tilak drew heavily from the ancient Hindu scriptures.
- He called for people to be proud of their heritage. He was against the blatant westernisation of society.

77. Answer: a

Explanation:

The correct answer is **Buddhadev Das Gupta**.

★ Key Points

- Sarod player Buddhadev Das Gupta was an Indian classical musician.
- He formerly lived in Kolkata, India.
- He was one of the musicians listed in The Raga Guide by Nimbus Records.
- At the age of 84, Pandit Buddhadev Dasgupta passed away in Kolkata in 2018.
- On February 1st, 1933, he was born in the Bihar city of Bhagalpur.
- In 2012, he presented the Padma Bhushan award.

★ Additional Information

Bhajan Sopori:

- **Bhajan Sopori** was an Indian instrumentalist.
- He was a player of the **santoor**.
- On **2nd June 2022**, he passed away.
- Bhajan Sopori belonged to the Sufiana Gharana of Indian classical music.

- Sopori was awarded the Sangeet Natak Akademi Award in 1992, the Padma Shri in 2004, and in 2009 he was honored with the Baba Allaudin Khan Award.
- **Pandit Shivkumar Sharma, Rahul Sharma, and Tarun Bhattacharya Abhay Sopori** are some of the famous players of Santoor.

Annapurna Devi:

- Annapurna Devi, the legendary musician awarded Padma Bhushan in 1977, was associated with Surbahar musical instrument.
- Indian Surbahar player Annapurna Devi was the daughter of Ustad Allaudin Khan.
- She married to famous "Sitar Maestro" Pt. Ravi Shankar.
- In 1991, she received the Sangeet Natak Akademi Award.
- In 2004, she was made a fellow of the Sangeet Natak Akademi.

Pt. Shiv Kumar Sharma:

- Pandit Shiv Kumar Sharma is an Indian music composer and Santoor player from the state of Jammu and Kashmir.
- He also composed music for many Hindi films in collaboration with Hariprasad Chaurasia (Famous Falutist).
- He was awarded the Sangeet Natak Akademi Award in the year 1985.
- He received the 'Padma Shri Award' in 1991. He also received the Padma Vibhushan in 2001.

Instruments	Famous Players
Santoor	Pt. Shiv Kumar Sharma, Bhajan Sopori, etc.
Veena	Ayyagari Syamasundram, Zia Mohiuddin Dagar, Doraiswamy Iyenger, Chittibabu, etc.
Sitar	Pt. Ravi Shankar, Shahid Parwez Khan, Anushka Shankar, Hara Shankar Bhattacharya, Vilayat Khan, Mushtaq Ali Khan, etc.
Sarod	Allaudin Khan, Ali Akbar Khan, Amjad Ali Khan, Buddhadeb Dasgupta, etc.

78. Answer: d

Explanation:

The correct answer is **Animal**.

★ Key Points:

The natural environment components can be classified into two

1. Abiotic components
2. Biotic components

Abiotic components

These components are not living but can support other living organisms. Some kinds of such organisms are given below:

- Inorganic substances: The elements which are taken up by the plants with the help of sunlight and converted into food. Examples of such inorganic elements are nitrogen, calcium, phosphorus, hydrogen, carbon dioxide, and oxygen.
- Organic substances: The substances which are taken in the form of inorganic materials from the food source and are again sent back to the environment after decomposition by decomposers. E.g. Carbohydrates, proteins, fats, etc.
- Physical factors: These factors have a direct effect on living organisms, which are climatic conditions like temperature, rainfall, wind, humidity, soil, and light energy which is used by the plants for the preparation of food.
- Lithosphere: The outermost layer of the earth (i.e.) soil or land.
- Hydrosphere: Part of the earth having water resources like oceans, rivers, ponds, and lakes.
- Atmosphere: It is a cover around the earth composed of a variety of gases that protects the living organisms from various harmful cosmic radiations.

Thus Water is an abiotic component Biotic components

★ Additional Information:

The area in which life is possible is called a biosphere.

All living organism in the biosphere depends upon one another and these organisms exist in the biosphere forming the following community.

- Producers: The green plants present on the earth's surface which produce their own food only once by the process of photosynthesis in sunlight, water, and carbon dioxide form food for other organisms. E.g. Sugar, carbohydrates, etc.
- Consumer: These organisms directly (or) indirectly depend upon the green plants for their source of food. E.g. All animals including man.
- Decomposers: These are micro-organisms that decompose the complex compounds in the dead organic matter of plants and animals and again recycle the elements into the environment. E.g. Bacteria and fungi.

79. Answer: b

Explanation:

The correct answer is the **Dead Sea**.

★ Key Points:

Dead Sea:

- The dead sea is located in Israel
- It is known as the most saline water body on the earth
- Because of the large amount of salt present in the water, its density is very high.
- It is said that humans don't sink in the dead sea, they will keep floating
- It is called the dead sea as no living organism can live in its highly saline water.

How can swimmers float in the water of the Dead Sea

- The water of the Dead Sea is saltier than most of the other bodies of water on earth.
- The concentration of salt reaches 34%.
- The extremely high concentration of dissolved mineral salts in the water causes the water to be denser than that of plain fresh water.

- Since our body weight is lighter (less dense) than the density of the water, our body is more buoyant in the Dead Sea, making it easy to float.
- For example, in freshwater our body doesn't float at all, it actually sinks.
- In the ocean, the human body starts feeling buoyancy and can float a bit.
- In the Dead Sea, the water is so dense that one can float easily even to the point that it's hard to stand on two feet.

Arabian Sea:

★ Additional Information

- It is a region of the **northern Indian Ocean**.
- It is bounded by Pakistan and Iran, on the west by the **Gulf of Aden, Guardafui Channel**, and the **Arabian Peninsula**, on the southeast by the Laccadive Sea, on the southeast by the Somali Sea, and on the **east by India**.

The Red Sea -

- The Red Sea and the Gulf of Aden were formed as the Arabian plate separated from Nubia, as Nubia obliquely collided with the Eurasian plate.
 - NE-directed extension between 35-27Ma leads to continental rifting along the line of the Red Sea and the Gulf of Aden.
- The origin of the Red Sea's name is that it contains cyanobacteria called *Trichodesmium erythraeum*, which turns the normally blue-green water reddish-brown.

80. Answer: d

Explanation:

The correct answer is 'Barren Island'.

★ Key Points:

- Barren Island is an island located in the Andaman Sea.
- It is the only confirmed active volcano in India as well as in south Asia along the chain of volcanoes from Sumatra to Myanmar.

- It is a part of the Indian Union territory of the Andaman and Nicobar Islands.
- Many volcanic eruptions have taken place here.
- The first volcanic eruption occurred in the year 1787.
- This island has no human population and few species of animals and birds are found here.

★ **Additional Information:**

- Laccadive, Minicoy, and Amindivi Islands are one of the three island subgroups in the Union Territory of Lakshadweep, India.
- The name was changed to Lakshadweep by an act of Parliament in 1973.

81. Answer: b

Explanation:

Correct Answer **Acyclic compounds**

★ **Key Points:**

- In Organic compounds, the **non-cyclic or an open-chain** structure compounds are also called **Aliphatic Compounds**.
- **Acyclic compounds** are also known as **aliphatic compounds**
- Hydrocarbons are categorized as Aliphatic Compounds and Aromatic Compounds.
- **Aliphatic Compounds** are the **non-aromatic compounds** in which C-C atoms have single, double, or triple bonds.
- Examples of Aliphatic Compounds include: Alkanes, Alkenes, Alkynes, and their derivatives.
- Aromatic compounds are hydrocarbons with cyclic planar structure, following the Huckel's rule. The ring has resonance bonds and is highly stable.
- Homocyclic compounds are the compounds with a ring structure and have only carbon atoms in the ring.
- **Example: Benzene.**
- Heterocyclic compounds are the compounds with a ring structure and have at least two elements in the ring.

82. Answer: d

Explanation:

The correct answer is **Two**.

★ **Key Points:**

- The two houses of parliament the Rajya Sabha and the Lok Sabha established in the year 1952.
- Rajya Sabha is also known as the Council of States or the upper house.
- Lok Sabha is also known as the House of the people or the Lower House.

Lok Sabha:

- Lok Sabha is the lower house of India's bicameral Parliament.
- The Hindi name of Lok Sabha was adopted by the house of the people on 14th May 1954.
- The full term of a Lok Sabha is 5 years.
- Fifth Lok Sabha from 1971 to 1977(5 years 10 months and 6 days) is the longest Lok Sabha in India.
- The twelfth Lok Sabha from 1998 to 1999(1 year 1 month and 4 days) is the shortest Lok Sabha in India.
- Lok Sabha is constituted under article 81 of the constitution.
- G. V Mavlankar is the father of Lok Sabha.
- The maximum strength of the Lok Sabha is fixed at 552.
- A money bill can introduce only in Lok Sabha and not in Rajya Sabha.
- A resolution to discontinue a national emergency can be passed on by the Lok Sabha.
- Uttar Pradesh has the maximum membership in Lok Sabha.

Rajya Sabha:

- On 23 August 1954, the Chairman of Rajya Sabha made an announcement in the House that the Council of States would now be called Rajya Sabha in Hindi.
 - The Rajya Sabha met for the first time on 13 May 1952.

- Dr. S. Radhakrishnan was the first Chairman of the Rajya Sabha.
- Shri S. V Krishnamoorthy Rao was the first Deputy Chairman of the Rajya Sabha.
- At that time, Two hundred and fifty (250), out of which 238 are to be elected and 12 are to be nominated by the President of India the maximum strength of the Rajya Sabha.

83. Answer: a

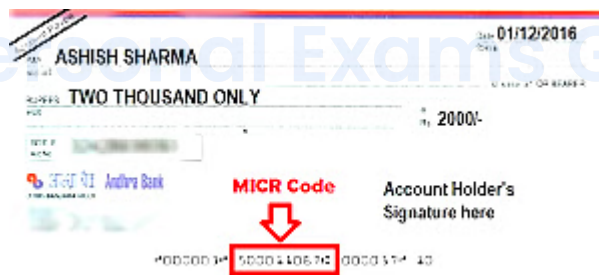
Explanation:

The correct answer is **Recognition**.

- MICR code in banking stands for Magnetic Ink Character Recognition.

★ Key Points:

- MICR (Magnetic Ink Character Recognition) code is a code printed on cheques.
- The embedded code is printed in **MICR**.
- It enables the identification of the cheques, which results in faster processing.
- A MICR code is a 9-digit code.



- It identifies the bank and branch participating in an Electronic Clearing System (ECS).
- It comprises 3 parts:
 - The first three digits represent the city i.e. City Code.
 - The next 3 digits represent the bank i.e. Bank Code.
 - The last 3 digits represent the branch i.e. Branch Code.

84. Answer: a

Explanation:

The correct answer is **Chandragupta Maurya, Greek.**

Megasthenes:

★ Key Points:

- Greek historian, diplomat, and explorer Megasthenes lived in the Hellenistic era (350–290 B.C.).
- Megasthenes has been sent as an ambassador to Chandragupta Maurya's court by Seleucus I Nicator, the Greek conqueror of West Asia.
- India is described in the book "Indica" by Megasthenes.
- The term "father of Indian history" refers to Megasthenes because he was the first to depict ancient India.
- The two main rivers Sindhu and Ganga are also described by him.
- The Mauryan capital Pataliputra was visited by Megasthenes.
- He gives a thorough description of the rivers of the Punjab region in northwest India.

Chandragupta Maurya

★ Additional Information:

- Chandragupta Maurya became king when he was 25 years old.
- He defeated the Nandas and established the Mauryan Empire.
- In 322 BC, he defeated the final Nanda emperor Dhanananda and took control of Pataliputra.
- A wise man by the name of Chanakya/Kautilya supported Chandragupta Maurya.
- Seleucus Nicator was defeated by Chandragupta Maurya in 305 BC.
- During Chandragupta Maurya's rule, all of northern India was united.

85. Answer: b

Explanation:

The correct answer is **6**.

★ Key Points:

- Accordingly, as per the Census of India, all persons engaged in 'work' defined as participation in any economically productive activity with or without compensation, wages, or profit are workers. The Reference period for determining a person as a worker and non-worker is one year preceding the date of enumeration.
- A person who works for *at least 183 days* in a year for economic productivity, is considered as '*the main worker*'.
- As per the *census 2011*, the percentage of main workers of the total population was 31%.
- The working population is nothing but the people engaged in productive work which earns them the wages to live.
- Apart from that, there is a *group named marginal workers who work less than 183 days a year* for economical productivity.
- The workers comprise 312 million main workers and 88 million marginal workers (i.e., those who did not work for at least 183 days in the preceding 12 months to the census taking).
- Main workers constitute 77.8 percent of the total workers. The remaining are *marginal workers*.
- Among the main workers, *female workers*, are only 23.3 % and 76.7% are male workers.
- The majority of female workers (87.3 percent) are from *rural areas*.
- This is also *twice that of male workers*, which may be due to their being employed predominantly in activities like *cultivation* and *agricultural labor*.
- In urban areas, the majority of female workers are engaged in the *household industry* and *other work*.

★ Additional Information:

- A **single worker** is a person who works by herself/himself. She/he is not employed by anyone else and in turn, does not employ anybody else.
- **Main worker:** A person who had **'worked' for 6 months or more during the reference period.**
- **Marginal worker:** A person who had **'worked' for 3 months or more but less than 6 months.**
- **Non-worker:** A person who did not 'work' at all during the reference period.

86. **Answer: a**

Explanation:

The correct answer is Article 21.

★ Key Points:

- According to Article 21: "Protection of Life and Personal Liberty: No person shall be deprived of his life or personal liberty except according to procedure established by law."
- This fundamental right is available to every person, citizens and foreigners alike.
- Article 21 provides two rights:
 - Right to life
 - Right to personal liberty
- The fundamental right provided by Article 21 is one of the most important rights that the Constitution guarantees.
- The Supreme Court of India has described this right as the 'heart of fundamental rights'.
- The right specifically mentions that no person shall be deprived of life and liberty except as per the procedure established by law. This implies that this right has been provided against the State only. State here includes not just the government, but also, government departments, local bodies, the Legislatures, etc.

★ Additional Information

Article 370:

- Article 370 of the Indian Constitution granted special autonomous status to the erstwhile state of Jammu and Kashmir.
- Article 370 was added to the Indian constitution on October 17, 1949, as a 'temporary provision', which exempted Jammu & Kashmir, permitting it to draft its own Constitution and restricting the Indian Parliament's legislative powers in the state.
- Under the article, the Constituent Assembly of Jammu & Kashmir was empowered to recommend which articles of the Indian Constitution should apply to the state.
- **Article 35A** stems from **Article 370** and was introduced through a Presidential Order in 1954, on the recommendation of the J&K Constituent Assembly.
- **Article 35A** empowers the Jammu & Kashmir legislature to define the permanent residents of the state, and their special rights and privileges. It appears in Appendix I of the Constitution.

Article 57:

- Article 57 deals with the eligibility conditions for the re-election of the President.
- It states that a person who holds, or who has held, office as President shall, subject to the other provisions of this Constitution, be eligible for re-election to that office.

Article 250:

- If the Proclamation of Emergency is in force, Parliament will have the power to make laws with respect to the subject of the State List.
- Such law remains in force for the period of emergency and 6 months beyond that.

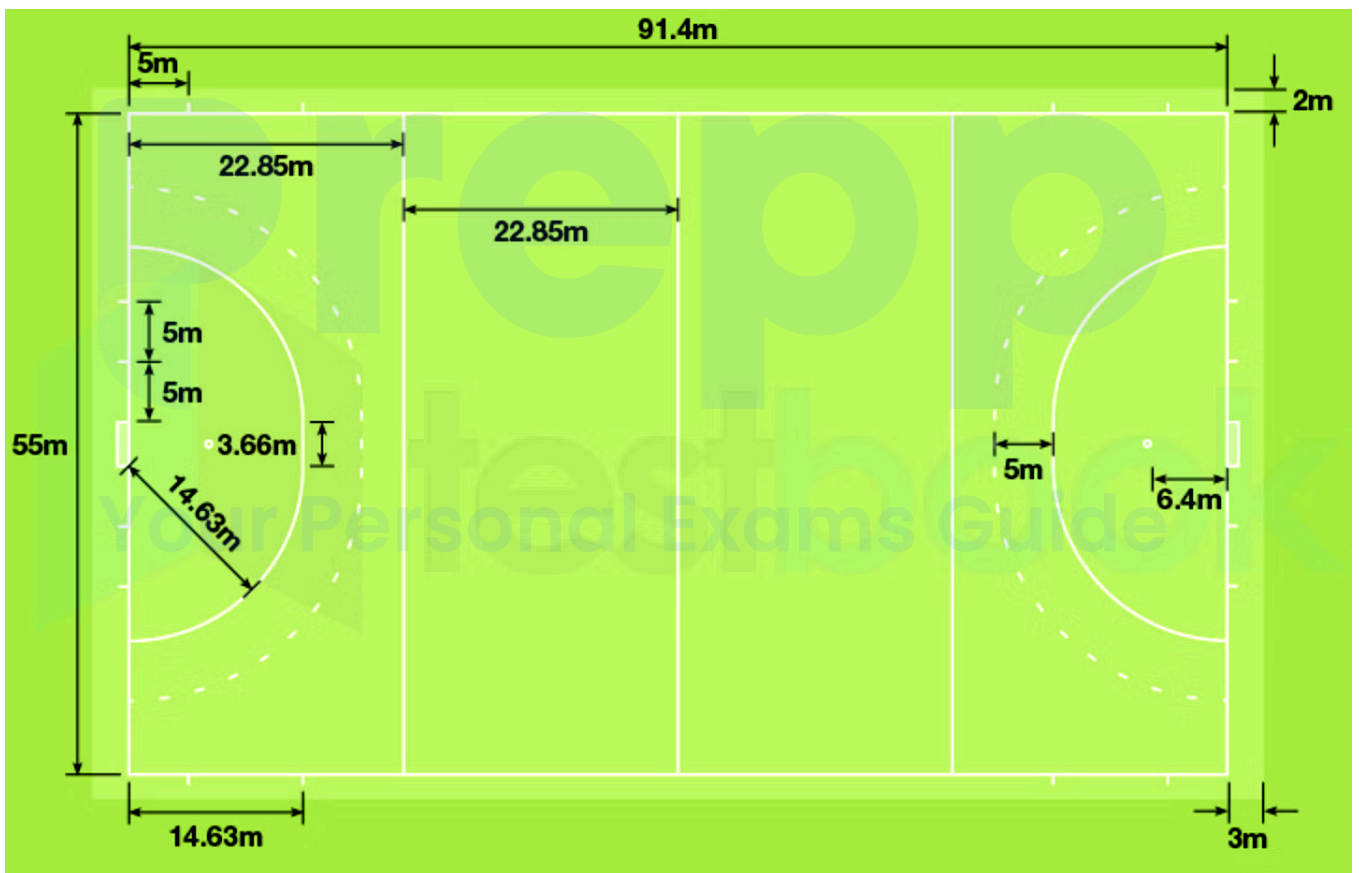
87. Answer: a

Explanation:

The correct answer is 91.4 m.

★ Key Points:

- The place on which field hockey is challenged is 91.4 m long and 55m wide.
- This border is marked on the turf and the shorter lines are known as backlines.
- Field Hockey is an eleven-aside game played on a pitch 100 yards by 60 yards with a ball that has a 23cm circumference.
- Every player has a stick with a rounded top to play the ball with and the target is to score goals by putting the ball in the rival team's goal.
- Field Hockey Pitch has a general length of 100 yards (91.44 m) and a width of 60 yards (54.86 m), for a whole area of 54,000 ft² (5017 m²).



★ Additional Information:

- Field hockey is a team sport organized in standard hockey format, in which every team plays with ten outfield players and a goalkeeper.

- Teams must need a round hockey ball hitting it with a hockey stick toward the opposing team's shooting circle and then into the goal.
- The match is won by the team that achieves the majority of goals.
- The game is played in the middle of two teams of eleven, 10 field players and one goalkeeper, who are allowed to be on the pitch at any one time.

88. Answer: c

Explanation:

The correct answer is **A passage to India**.

★ Key Points:

- A Passage to India is a 1924 novel by English author E. M. Forster set against the backdrop of the British Raj and the Indian independence movement in the 1920s.
- The novel examines racism and colonialism as well as a theme Forster developed in many earlier works, namely, the need to maintain both ties to the earth and a cerebral life of the imagination.
- The novel is based on Forster's experiences in India, deriving the title from Walt Whitman's 1870 poem "Passage to India" in Leaves of Grass.

★ Additional Information

- **Salman Rushdie's 2019 book 'Quichotte'** is inspired by **Miguel De Cervantes Don Quixote'**.
- **Invisible Man** is a novel by **Ralph Ellison** about an **African American man** whose color renders him **invisible**.
- It was published by **Random House in 1952**.
- It addresses many of the **social and intellectual issues** facing African-Americans early in the **twentieth century**, including **Black Nationalism**.

Authors Name	Books
Salman Rushdie	<ul style="list-style-type: none"> • The Enchantress of Florence • Midnight's Children • The Satanic Verses • The Golden House • Quichotte
Toni Morrison	<ul style="list-style-type: none"> • Beloved, The Bluest Eye, Song of Solomon

89. Answer: c

Explanation:

Correct Answer **Aves**



Key Points Aves:

- The class Aves includes birds or flying vertebrates.
- A characteristic feature of Aves is the presence of feathers.
- The **birds** are unique in having a coat of feathers and in resting on the hindlimbs alone.
- Respiration takes place only by the lungs.
- Lungs are respiratory organs, which are spongy, inelastic, and are connected to large air sacs.
- Endoskeleton is bony, but delicate and light.
- Bones are pneumatic i.e., contain air cavities to reduce weight.
- These are warm-blooded animals.
- Example - *Covus* (Crow), *Neophron* (Vulture), parrots.
- Aves is a class of vertebrates that comprises the birds' species.
- Birds are egg-laying animals, have fur, and two legs, and are endothermic.

Mammalia:

★ **Additional Information**

- It is characterized by mammary glands.
- Its body is covered by hair.
- It is both aquatic and terrestrial.
- Monkeys and rats are examples.

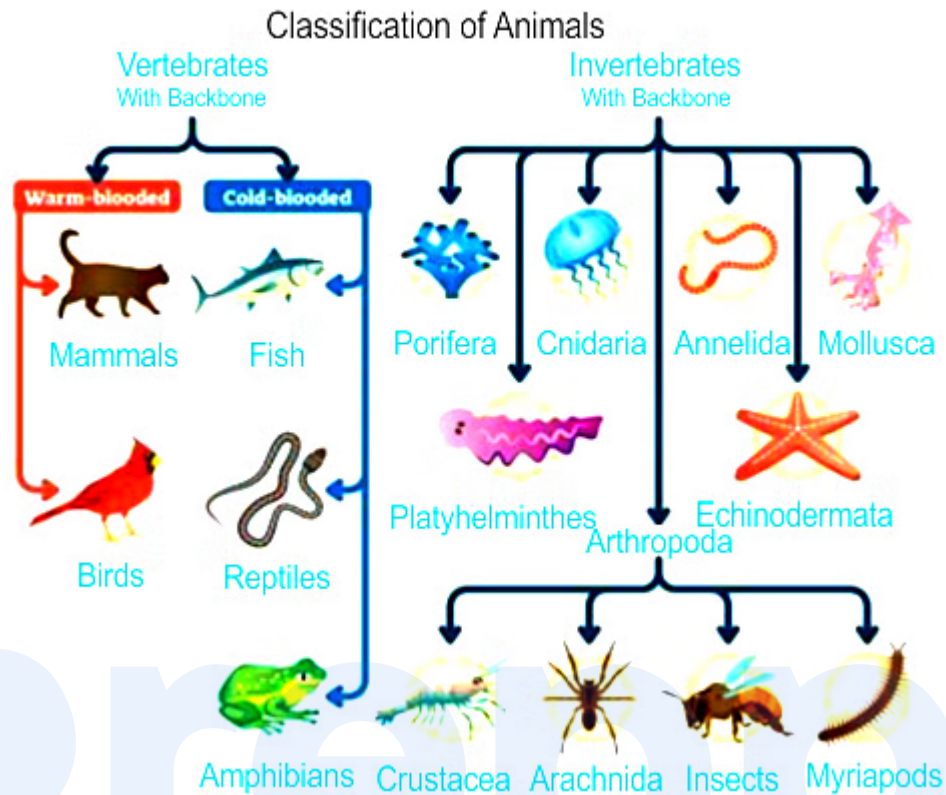
Amphibia:

- It is both water and land living.
- Its skin is moist.
- It shows cutaneous respiration.
- Frogs and salamanders are examples.

Reptilia:

- Reptilia are classes of animals that are mostly terrestrial.
 - their bodies are covered by dry and cornified skin, epidermal scales, or scutes.
 - They do not have external ear openings.
- Crocodiles, snakes, and lizards are examples.

Your Personal Exams Guide



90. Answer: c

Explanation:

The correct answer is Gambhira.

★ Key Points:

- Gambhira is the traditional masked dance performed by the people of North Bengal.
- This dance is performed all over the Malda district of North Bengal during the festival of Chaitra Sankranti.
- This sacred devotional dance is performed by worshippers of Shakti.
- The dance is named so because it is performed in the dance hall of the Chandi Mandir – Gambhira, which has a specially constructed pavilion in front of the shrine, for the dance.

★ Additional Information

Giddha:

- It is Punjabi's most famous folk dance for women.
- In Giddha, the women enact verses called bolis, folk poetry, and dance.
- The subject matter of this bolis includes everything from arguments with the father-in-law to political affairs.
- The dance rhythm is set by the dhols and the distinctive hand claps of the dancers.

Jawara Dance:

- It is a folk dance of Madhya Pradesh.
- It is mainly performed in the Bundelkhand region among the peasant community.
- It is also known as the harvest dance.
- Both males and females participate in the Jawara dance.
- Other folk dances of Madhya Pradesh are Matki, Aada, Khada Nach, Phulpati, Grida Dance, Selalarki, Selabhadoni, and Maanch.

Kavadi:

- It originated in the South Indian state of Tamil Nadu, in the small town called Palani.
- The ritual dance is rooted in the tale of a giant Idumban who is believed to have carried Palani hill across his shoulders in the form of a Kavadi.
- Bearing Kavadi to Lord Murugan is of great significance as it brings peace and good luck.
- The story behind Kavadi is associated with Lord Murugan testing idumban of his determination and duty towards his Guru Sage Agasthiar.

91. **Answer: c**

Explanation:

The correct answer is **Meitels**.

★ **Key Points:**

- Lai Haraoba festival is widely celebrated in Manipur.
- It is an important festival of the Meitai tribe.
- Traditional folk dances of Manipur: Rakhai, Nat Rash, Maha Rash, Raukhat
- Lai Haraoba festival is celebrated in honor of Umang-Lais, the deity of forest and environment.
- In the Meitei society following types of Lai Haraoba is prevalent:
 1. Kanglei Haraoba
 2. Chakpa Haraoba
 3. Moirang Haraoba
 4. Kakching Haraoba

★ **Additional Information**

State	List of Indian Festivals
Arunachal Pradesh	Reh, Boori Boot, Myoko, Dree, Pongtu, Losar, Murung, Solang, Mopin, Monpa festival
Meghalaya	Nongkrem festival, Khasis festival, Wangla,
Karnataka	Mysore Dasara, Ugadi
Kerala	Onam, Vishu
Nagaland	Hornbill festival, Moatsu Festival

Sumi Nagas:

- The wisdom of Sumi Nagas to use ecological indicators to facilitate agricultural practices and predict seasonal variation is vanishing with time.
- Sümi tribe is the major ethnic group among Nagas, who are Indo-Mongoloid tribal groups, in Nagaland, India.
- Sümi Nagas practiced Aki Kiti (a semi-contact combat sport), and headhunting like other Nagas before their conversion to Christianity.
- Their grandest festival, Tuluni, is marked with feasts as the occasion occurs in the bountiful season of the year

- Ahuna is a traditional post-harvest festival of the Sumis.
- Sumi Nagas is primarily agrarian and depends on forests for both food and livelihood.
- Sumi is one of the recognized scheduled tribes of India.

Bihu

- It is the most important festival in Assam.
- It is celebrated with joy and abundance by all Assamese people irrespective of caste, creed, religion, faith, and belief.
- Tribal groups like the **Mishings, the Deoris, and the Morans celebrate Bihu with dances** of their distinctive style.

92. Answer: d

Explanation:

The correct answer is a **Narthaki Nataraj**.

★ Key Points:

- Narthaki Nataraj is a famous Bharatanatyam dancer in India.
- She was born in a village near Madurai in Tamil Nadu.
- She was honoured with the Padma Shri award in 2019.
- She is the first transgender woman to be awarded the Padma Shri in India.
- She specialised in the Tanjore-based Nayaki Bhava tradition.
- As an honour to Narthaki Natraj Tamilnadu Government included her life and journey as a lesson in the 11th Standard Tamil Textbook of 2018.
- She was honoured with the Sangeet Natak Akademi Puraskar Award in 2011.

★ Additional Information:

Naaz Joshi:

- India's transsexual woman Naaz Joshi has made history with a **third successive victory in the beauty pageant Miss World Diversity**.
- **Naaz was crowned Miss World Diversity 2019** on August 3 in Port Louis, Mauritius.

- The **Miss World Diversity 2019** was held in Port Louis, Mauritius.

Manjamma Jogati:

- Manjamma Jogathi is an Indian Kannada theatre actress, singer, and dancer of Jogathi Nritya, a folk dance form of North Karnataka.
- In 2019, she became the first transgender woman to be the president of Karnataka Janapada Academy, the state's top institution for folk arts.
- She was born on 20 May 1957.
- A folk dance is a dance that reflects the life of the people of a certain country or region.
- Not all ethnic dances are folk dances. For example, ritual dances or dances of ritual origin are not considered to be folk dances.

93. **Answer: d**

Explanation:

The correct answer is **Lack of housing facilities.**

★ **Key Points:**

- Unemployment occurs when a person who is actively searching for employment is unable to find work.
- It is often used as a measure of the health of the economy.

Types of Unemployment

Disguised Unemployment:

- The phenomenon when more people are employed than actually needed.
- Example: agricultural and the unorganized sectors of India.

Seasonal Unemployment:

- Unemployment occurs during certain seasons of the year.

- Example: Agricultural labourers.

Structural Unemployment:

- Unemployment arises from the mismatch between the jobs and the skills of the available workers in the market.
- Many people do not get jobs due to a lack of requisite skills and poor educational levels.

Cyclical Unemployment:

- It is the result of the business cycle.
- Unemployment rises during recessions and declines with economic growth.

Technological Unemployment:

- It is the loss of jobs due to changes in technology.

Frictional Unemployment:

- Frictional Unemployment is also known as Search Unemployment.
- It refers to the time lag between the jobs when an individual is searching for a new job or is switching between jobs. Hence pair 3 is not correct.

Vulnerable Employment:

- This means people are working informally without proper job contracts.
- These persons are deemed 'unemployed' since records of their work are never maintained. Hence pair 4 is not correct.

94. Answer: d

Explanation:

The correct answer is **Rana Amar Singh**

Nine Gems (Navratna) of Akbar's Court

★ Key Points:

prepp

Your Personal Exams Guide

Name	Points to remember
Abul Fazl	<p>He was the chronicler of Akbar's rule.</p> <p>He authored Akbar's biography - Akbarnama.</p> <p>Abul Fazl documented the history meticulously for seven years.</p>
Faizi	<p>Faizi translated the Panchatantra, the Ramayana, and the Mahabharata into Persian.</p>
Raja Todar Mal	<p>Todar Mal was the revenue minister of Sher Shah Suri who continued in the position in the court of Akbar. He introduced standard weights and measurements, revenue districts, and officers.</p>
Abdul Rahim Khan-i-Khanan	<p>Abdul Rahim Khan-I-Khanan was the son of Akbar's general Bairam Khan, the person who looked after him after the death of Humayun. Rahim is known for his couplets or Dohe.</p>
Tansen	<p>Tansen (original name Ramtanu Pandey) was a great musician who is credited with the innovation of Raagas such as Mian ki Malhar, Mian ki Todi and Darbari Kanada.</p>

Name	Points to remember
Raja Man Singh	<p>Raja Man Singh, a trusted lieutenant of Akbar was the grandson of Akbar's father-in-law.</p> <p>Raja Man Singh assisted Akbar on many fronts including holding off advancing Hakim (Akbar's half-brother) in Lahore. He also led campaigns in Orissa.</p>
Faqir Aziao Din	He was a mystic and advisor whose advice Akbar regarded respectfully.
Mullah Do Piazza	He was also an advisor in the court of Akbar known for his intelligence.

95. Answer: d

Explanation:

The correct answer is **Bibi Ka Maqbara**

★ **Key Points:**

His original name was **Mahesh Das**. He was a well-known **court jester**.

- 'Bibi ka Maqbara' is a tomb situated in Aurangabad, Maharashtra, India.
- It was commissioned in 1660 by the Mughal emperor Aurangzeb in remembrance of his first and chief wife Dilras Banu Begum (posthumously known as Rabia-ud-Daurani) and is considered to be a symbol of Aurangzeb's "conjugal devotion".
- Bibi Ka Maqbara is the second major structure that Aurangzeb has built, the largest being the Badshahi Mosque.

★ **Additional Information:**

Aurangzeb (1658 AD-1707 AD):

- **Aurangzeb** defeated **Dara at Dharmat (1658 AD)**, **Samugarh (1658 AD)**, and **Deorai**, in which Samugarh was the decisive one and Deorai was the last one.

- After the victory, Aurangzeb was crowned at Delhi under the title *Alamgir*. He died in February 1707 in Ahmadnagar.
- Aurangzeb captured Guru Teg Bahadur, the 9th Guru of Sikhs in 1675 AD and executed him when he refused to embrace Islam.
 - The 10th and last Sikh Guru, Guru Gobind Singh, son of Guru Teg Bahadur, organized his followers into a community of warriors called *Khalsa* to fight against the Muslims.
- Chhatrapati Shivaji Maharaj was the most powerful Maratha king and an arch-enemy of Aurangzeb.
- The Mughal conquests reached a climax during Aurangzeb's reign as Bijapur and Golconda were annexed in 1686 AD and 1687 AD, respectively.
- Under him, the Mughal empire reached its greatest extent and the largest single-state ever known in India.
- He forbade the inscription of *Kalma* on the coins, also forbade sati and Jharokha-darshan.
- He ended the celebration of Navroz and, in 1679 AD, reimposed Jizya.
- Aurangzeb was initiated into the Naqshbandiya order.
- The only monument associated with Aurangzeb is *Bibi ka Maqbara*, which is the tomb of his wife Rabbia-ud-Daura, in Aurangabad.

96. Answer: a

Explanation:

The correct answer is M Jagadesh Kumar.

★ Key Points:

- JNU Vice-Chancellor M Jagadesh Kumar has been appointed as Chairman of the University Grants Commission (UGC).
- This is the second time he has been given this charge.
- He earlier served as the Chairman of UGC from 14 January to 7 February 2017.
- The post of the UGC Chairman fell vacant on December 7, 2021. after Prof D P Singh, who had taken charge in 2018, resigned upon turning 65.

- The University Grants Commission (UGC) came into existence on 28th December 1953
 - It became a statutory Organization of the Government of India by an Act of Parliament in 1956, for the coordination, determination, and maintenance of standards of teaching, examination, and research in university education.
-

97. Answer: c

Explanation:

The correct answer is **Both I and II** .

★ Key Points:

- The Indian Statutory commission also known as the Simon Commission was a group of seven members of Parliament under the chairmanship of Sir John Simon.
- Simon commission was adopted in November 1927 by the British Conservative government under Stanley Baldwin to report on the working of the Indian Constitution established by the Government of India Act of 1919.
- Its composition met with a storm of criticism in India because Indians were excluded.
- At the annual session of Congress in Madras in December 1927, a resolution was passed which advocated the boycott of the Simon Commission "at every stage and in every form".

Thus, we can say that a resolution boycotting the Simon Commission was passed at the 1927 Madras Congress session.

98. Answer: a

Explanation:

The correct answer is **New Zealand**.

2021 ICC Men's T20 World Cup

★ Key Points:

- Australia is the winner of the ICC Men's T20 World Cup 2021.
- The T20 World Cup 2021 was started on 17th October in UAE and Oman.
- The final match was played between Australia and New Zealand.
- That was the first time when the Australian cricket team won the T20 World Cup 2021.
- Australian cricketer Mitchell Marsh was the player of the match in the T20 World Cup 2021.

★ Additional Information

- ICC headquarter is located in Dubai, United Arab Emirates.
- It was established in 1909 by the representatives of Australia, England, and South Africa as Imperial Cricket Conference.
- The ICC is the global governing body for cricket which is also responsible for all ICC events.

99. Answer: d

Explanation:

The correct answer is **Karnataka**

★ Key Points:

- The Hazira-Vijaipur-Jagdishpur (HVJ) pipeline is India's first cross-state gas pipeline.
- The project began in 1986, with the formation of GAIL (India) Limited, with the goal of supplying gas to fertiliser facilities in Uttar Pradesh.
- The project's first phase, consisting of a 1,750-kilometer non-branched grid, was completed in 1987.

- The addition of new branches to supply gas for industrial and home usage across Rajasthan, Haryana, and the National Capital Territory, brings the overall grid length to 3,474 kilometers.
- Indraprastha Gas Limited, a newly formed company, gained control of the Delhi branch of the pipeline in 1998 in order to construct a citywide gas system.
- It has branches in Rajasthan's Kota, Uttar Pradesh's Shahjahanpur, Babrala, and other cities like Aonla, Auraiya.



100. Answer: b

Explanation:

The correct answer is **Sujalam 2.0**.

★ **Key Points:**

- Marking World water day, which occurs on the 22nd of March, Gajendra Singh Shekhawat launched Sujalam 2.0.
- The theme for this year is "Groundwater: Making the Invisible Visible".
- Sujalam was launched on August 25, 2021, as a 100-day campaign to create more Open Defecation Free(ODF) plus villages by undertaking water waste

management.

- Greywater is residual water from domestic activities such as bathing, washing dishes and laundry.
- According to the ministry report around 15000 to 18000 litres of greywater is generated daily in rural areas.
- Sujalam 2.0 campaign is for greywater management and 9 ministries signed a joint advisory:

★ **Additional Information:**

Ministry	Union Minister
Jal Shakti	Gajendra Singh Sekhawat
Rural Development	Giriraj Singh
Women & Child Development	Smriti Irani
Youth Affairs & Sports	Anurag Singh Thakur
Tribal Affairs	Arjun Munda
Health & Family Welfare	Mansukh L Mandaviya
Education	Dharmendra Pradhan
Environment, Forest & Climate Change	Bhupender Yadav
Panchayati Raj	Giriraj Singh