

# **SSC MTS 2020 Tier I : 6**

## **Oct S3**

**Mock Test Questions & Solutions**

## **Mock Test Solutions in English**

## Questions

1. Select the most appropriate meaning of the given idiom.

## Over the moon



2. Select the INCORRECTLY spelt word.

- |               |                |
|---------------|----------------|
| A. Decorative | B. Extravagant |
| C. Elaborate  | D. Ornamental  |

- 3. Select the INCORRECTLY spelt word**

- A. Persuasion
  - B. Absense
  - C. Erroneous
  - D. Scenic

4. Select the most appropriate one-word substitution for the given group of words.

A person who remains unmoved and unaffected by other people's opinions, suggestions

- |                  |               |
|------------------|---------------|
| A. Irresponsible | B. Unreliable |
| C. Imprudent     | D. Impervious |

5. Select the most appropriate synonym of the given word.

# FLUORESCENT

- |              |            |
|--------------|------------|
| A. elaborate | B. flowery |
| C. perfumed  | D. Glowing |

6. Select the most appropriate meaning of the given idiom.

## Copycat

- A. One who loves cats and dogs
  - B. One who imitates another closely
  - C. One who copies all drawings of cats
  - D. One who doesn't like cats as pets

7. Identify the segment in the sentence which contains a grammatical error.

Vijaya saw the play in a auditorium near her house.

- A. in a auditorium
- B. near her house
- C. the play
- D. Vijaya saw

8. Select the most appropriate one-word substitution for the given group of words.

A boat or ship for conveying passengers and goods, especially over a relatively short distance and as a regular service

- A. Dinghy
- B. Ferry
- C. Freighter
- D. Submarine

9. Select the most appropriate ANTONYM of the given word.

FLIMSY

- A. strong
- B. weak
- C. tiny
- D. Clumsy

10. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

I'm certain go to start studying from today.

- A. certain going
- B. certainly go
- C. certainly going
- D. No substitution required

11. Select the most appropriate option to fill in the blank.

They looked at each other for a moment without speaking and then fell into a \_\_\_\_\_.

- A. conversation
- B. confidence
- C. conversion
- D. Conviction

12. Identify the segment in the sentence which contains a grammatical error.

Obi wanted to continue on his idea of building a modern school.

- A. building a modern school
- B. Obi wanted
- C. his idea of
- D. to continue on

13. Select the most appropriate synonym of the given word.

GRACEFUL

A. elegant

B. dangerous

C. pleasant

D. Friendly

14. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Very soon, the people find out as the snake was harmless and the boys began to tease it mercilessly.

A. found out that

B. finds out but

C. No substitution required

D. finding out so

15. Select the most appropriate option to fill in the blank.

\_\_\_\_\_ entering the hall, please turn off your mobile phones.

A. Previous

B. Earlier

C. Ahead

D. Before

16. Select the most appropriate ANTONYM of the given word.

DEFENCE

A. protection

B. offence

C. security

D. Guard

17. Identify the segment in the sentence which contains a grammatical error.

Slowly the dog, Spot, went towards it and pounced up the rat.

A. up the rat

B. and pounced

C. went towards it

D. Slowly the dog, Spot

18. Select the most appropriate option to fill in the blank.

Half-way \_\_\_\_\_ the two towns, there was a mountain which had to be crossed.

A. between

B. across

C. around

D. Within

19. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

There were a dozen eggs in the basket, but now there will be only six.

A. there been

B. there are

With your new credit card, you can \_\_\_\_\_ up to Rs. 20,000 in a day.

- A. withdraws
  - B. withdrew
  - C. withdraw
  - D. Withdrawn

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

Long ago in China, at a time when girls (1) \_\_\_\_\_ expected to stay at home and (2) \_\_\_\_\_ household work while the boys (3) \_\_\_\_\_ to school, a girl named Zhu had a desire (4) \_\_\_\_\_ study. Her family was wealthy and Zhu was (5) \_\_\_\_\_ so she too could have had her wish, but her father did not want to go against tradition.

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



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

- A. make
  - B. teach
  - C. produce
  - D. do

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

- A. going
  - B. goes
  - C. go
  - D. Went

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

- A. for
  - B. at
  - C. to
  - D. In

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

- |            |             |
|------------|-------------|
| A. treated | B. pampered |
| C. trained | D. Prepared |

26. Which two digits can be interchanged so as to balance the given equation?

$$76 + 108 \div 9 - 11 \times 2 = 18$$

- A. 2 and 7      B. 8 and 7  
C. 1 and 7      D. 6 and 2

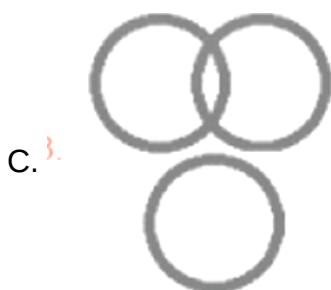
27. Select the correct sequence of mathematical signs to sequentially replace the A, B, C, D and E so as to balance the given equation.

$$38 \text{ A } 56 \text{ B } 8 \text{ C } 15 \text{ D } (36 \text{ E } 28) = 151$$

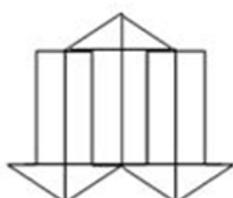
- A.  $- \times + \div -$       B.  $- \div + \times -$   
C.  $+ \div \times - +$       D.  $\times - \div + -$

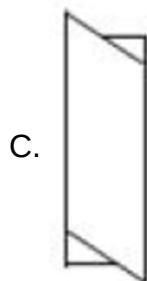
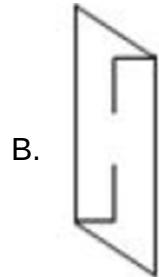
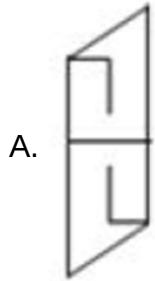
28. Select the Venn diagram that best illustrates the relationship between the following classes.

Village people, Educated people, Intelligent people

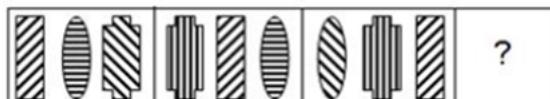


29. Identify the option figure which is embedded in the following figure (rotation is Not allowed).





30. Select the option figure that will replace the question mark (?) in the following figure series.



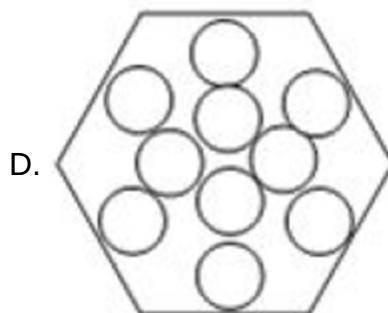
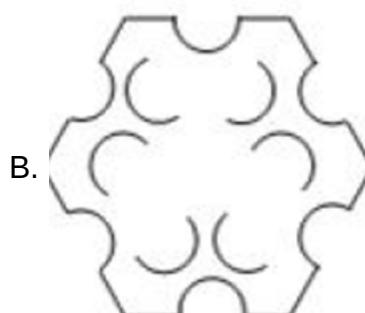
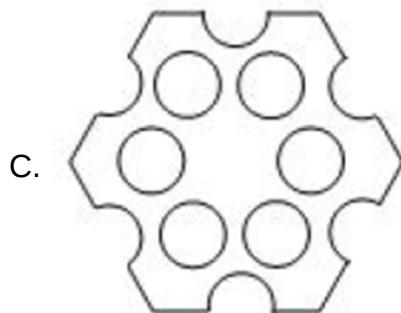
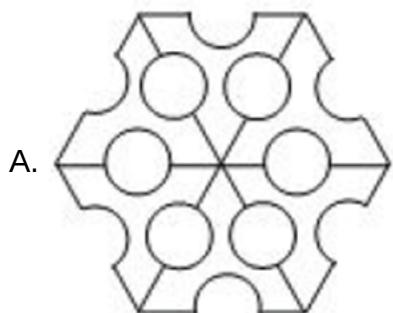
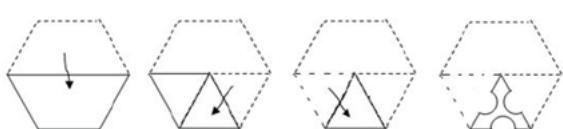
31. 'Young' is related to 'Age' in the same way as 'Short' is related to '\_\_\_\_\_':

- |          |           |
|----------|-----------|
| A. Rain  | B. Period |
| C. Small | D. Train  |
32. In a certain code language, 12345 is coded as 182764125. How will 65428 be coded in that language?
- |                 |                 |
|-----------------|-----------------|
| A. 21512463511  | B. 149016025    |
| C. 216125747512 | D. 216125648512 |

33. If in a coding system, HOUSE is coded as 340 and FOETUS is coded as 516, then how will CONSENT be coded in the same coding system?



34. A paper is folded and cut as shown in the following figures. How will it appear when unfolded?



35. Five persons, V, W, X, Y and Z are sitting along a round table facing the centre. V is sitting 2nd to the right of W, who is 2nd to the right of X. If Y is sitting adjacent to X, then who is to the immediate left of V?



36. Which number will replace the question mark (?) in the following number series?

2, 12, 30, 56, 90, 132, ?

37. Select the correct mirror image of the given combination when the mirror is placed to the right side of the it.

Ù&Á?FS

- A. SF?ÁFS
- B. SF?ÁFS
- C. SF?ÁFS
- D. SF?Á&Ù

38. Which letter-cluster will replace the question mark (?) in the following letter-cluster series?

GJM, QTW, ADG, ?

- A. KOR
- B. JNR
- C. KNQ
- D. JMP

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

**Statements:**

All Eagles are Kites.

All Kites are Sparrows.

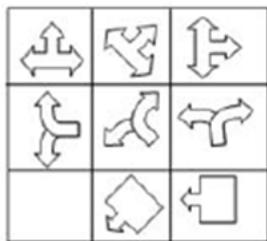
**Conclusions:**

I. All Sparrows are Eagles.

II. All Eagles are Sparrows.

- A. Both conclusions I and II follow.
- B. Neither conclusion I nor II follows.
- C. Only conclusion I follows.
- D. Only conclusion II follows.

40. Identify the option figure that when placed in the blank space completes the pattern in the given question figure.



- A. 
  - B. 
  - C. 
  - D. 

41. 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.

## ORGANZA : LJTAMBZ :: TEMPLATE :?

- |                           |                            |
|---------------------------|----------------------------|
| A. FFNQMZH<br>C. GWNLOAGW | B. GFMQLZGV<br>D. QBJMIXQB |
|---------------------------|----------------------------|

42. Select the option word that is related to the third word in the same way as the second word is related to the first word.

Kohima : Nagaland :: Shillong : ?



43. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

9779

7871

69?



44. In a certain code language, if HARIDWAR is written as FCPKBYYT, then how will BIKANER be written in

the same code language?



## **Statements:**

All Toms are Jerrys.

Some Jerrys are Mickeys.

### **Conclusions:**

I. Some Toms are Mickeys.

II. Some Toms are not Mickeys.

III. Some Jerrys are Toms.

A. Both conclusions II and III follow.

C. Only conclusion I follows.

B. Only conclusion II follows.

D. Only conclusion III follows.

48. Which number will replace the question mark (?) in the following number series?

86, 74, 84, 76, ?, 78, 80

A. 80

B. 82

C. 78

D. 84

49. Eight students were sitting on two benches, L, M, N, O on the front bench and P, Q, R, S on the next one, but not in the same sequence. Q was sitting exactly behind M, who was sitting to the extreme right. O & P and L & S were sitting adjacent to each other in diagonally cross positions, S being on the extreme left. What was the sitting position of N?

A. Diagonal to R

B. Exactly in front of R

C. Right of O

D. Left of L

50. In a certain code language, if FINALIZE is written as JKRCPKDG, then how will INSIGNIA be written in the same code language?

A. MRWMKRMG

B. MPTMIPMG

C. KRWKKRKC

D. GRWGKRGY

51. Let x be the least number between 70000 and 75000 which on being divided by 225, 250 and 275 leaves a remainder of 61 in each case. The sum of the digits of x is:

A. 12

B. 29

C. 16

D. 21

52. By selling a fan for Rs. 2,604, there is a loss of 7%. If it is sold for Rs. 3,094, then the profit percentage is:

A. 10%

B. 12%

C. 9.5%

D. 10.5%

53. What is the mean of range and median of the given data?

11, 16, 14, 7, 11, 23, 10, 30, 20, 33, 19, 12, 17, 14

A. 20.5

B. 25.5

C. 24

D. 19

54. A person travels a certain distance at  $4\frac{1}{6}$  m/sec and returns to the starting point at 12 km/h. His average speed (in km/h) is:
- A.  $12\frac{1}{2}$       B.  $13\frac{1}{3}$   
C.  $13\frac{1}{2}$       D.  $10\frac{1}{3}$
55. The value of  $\frac{3}{7} + \frac{1}{14} \times 2\frac{4}{5} - \left( \frac{1}{4} \div \frac{2}{7} \text{ of } 2\frac{1}{3} \right) \times \left( 5\frac{1}{5} \div 3\frac{1}{2} \times \frac{5}{13} \right)$  is:
- A.  $\frac{22}{35}$       B.  $\frac{3}{14}$   
C.  $\frac{14}{21}$       D.  $\frac{29}{70}$
56. The ratio of A and B is 2 : 3, and B is 8 more than A. If a certain number k is added to each of A and B, then the ratio becomes 7 : 9. The value of k is:
- A. 10      B. 8  
C. 12      D. 16
57. The ratios of acid and water in the solutions in vessels A and B are 4 : 5 and 5 : 1, respectively. A new solution is obtained by mixing 5 litres and 4 litres of the solutions from A and B. Respectively. What is the ratio of acid and water in the new solution?
- A. 9 : 4      B. 50 : 31  
C. 25 : 16      D. 15 : 8
58. A shopkeeper marks an article 24% above its cost price and allows a 15% discount on the marked price. If he earns a profit of Rs. 27 by selling the article, then the selling price of the article is:
- A. Rs. 508      B. Rs. 522  
C. Rs. 517      D. Rs. 527
59. The value of  $\frac{3\frac{1}{4} - \frac{4}{5} \text{ of } \frac{5}{6}}{4\frac{1}{3} \div \frac{1}{5} - \left( \frac{3}{10} + 21\frac{1}{5} \right)} - \left( 2\frac{2}{3} \text{ of } 1\frac{1}{2} \right)$  is:
- A.  $13\frac{1}{2}$       B.  $11\frac{1}{2}$   
C.  $9\frac{1}{2}$       D.  $12\frac{1}{2}$
60. A sum of Rs. 3, 780 is divided between A, B and C such that if their shares are decreased by Rs. 130, Rs.

150 and Rs. 200, respectively, then they are in the ratio of 5: 2 : 4. What is the original share of C?

- A. Rs. 1,350      B. Rs. 1,330  
C. Rs. 1,400      D. Rs. 1,430

61. The average of the 2-digit numbers 49, 6x, x4 and 70 is 65. What is the average of (x + 8) and (x + 12)?

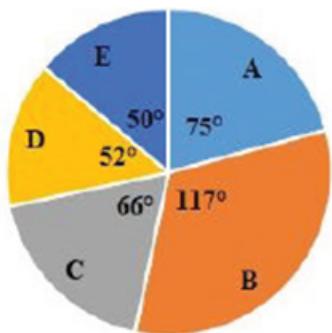
- A. 16      B. 17  
C. 19      D. 18

62. A sum of Rs. 5,760 amounts to Rs. 7,200 in 4 years and Rs x in 12 years at a certain rate per cent per annum, when the interest is compounded yearly in both the cases. What is the value of x?

- A. 11500      B. 11250  
C. 12500      D. 12250

63. **Direction:** Study the given pie chart and answer the question that follows.

Break-up of the students studying in schools A, B, C, D and E managed by a society, in 2019



Total number of Students in five schools = 5400

The difference between the number of students in school B and the total number of students in schools D and E is P. The value of P lies between:

- A. 210 and 220      B. 220 and 230  
C. 200 and 210      D. 230 and 240

64. The average number of students in schools A, B and C is what percentage more than the number of students in school E?

- A. 65%      B. 60%  
C. 72%      D. 70%

65. The ratio of the number of boys and girls in school B is 6 : 7, and 40% of the students in school D are

boys. The total number of girls in schools B and D is:

- |         |         |
|---------|---------|
| A. 1503 | B. 1410 |
| C. 1508 | D. 1413 |
66. The amount obtained by investing a certain sum at  $r\%$  p.a. for 3 years at simple interest is equal to the simple interest on the same sum at the same rate for 13 years. The value of  $r$  is:
- |       |       |
|-------|-------|
| A. 8  | B. 10 |
| C. 16 | D. 12 |
67. A solid metal cube of edge 12 cm is immersed completely in water in a cylindrical vessel whose radius is 20 cm and height is 32 cm, and the water in the vessel is up to a height of 15 cm. The height (in cm) by which the water will rise in the vessel is correct to one decimal place):
- |        |        |
|--------|--------|
| A. 0.9 | B. 1.4 |
| C. 1.2 | D. 1.1 |
68. If  $x\%$  of 180 is 25% less than  $(x + 350)$ , then 18% of  $(x + 50)$  is what percentage more than 12% of  $x$ ?
- |       |       |
|-------|-------|
| A. 60 | B. 72 |
| C. 75 | D. 80 |
69. What is the radius (in cm) of a circle whose area is  $2\frac{17}{30}$  times the sum of the areas of two triangles whose sides are 20 cm, 21 cm and 29 cm, and 11 cm, 60 cm and 61 cm (take  $\pi = \frac{22}{7}$ )?
- |         |         |
|---------|---------|
| A. 21   | B. 14   |
| C. 17.5 | D. 24.5 |
70. The average of 18 numbers is 65. The average of the first 10 numbers is 72 and that of the last 9 numbers is 58. If the 10<sup>th</sup> number is excluded, then what is the average of the remaining numbers (correct to one decimal place)?
- |         |         |
|---------|---------|
| A. 64.6 | B. 66.6 |
| C. 65.2 | D. 65.4 |
71. Pipes A and B can fill a tank in 8 hours and 12 hours, respectively. C is an outlet pipe. When all the three are opened together, the tank is filled in  $13\frac{1}{3}$  hours. C alone can empty the full tank in:
- |                         |                         |
|-------------------------|-------------------------|
| A. $6\frac{1}{2}$ hours | B. $7\frac{1}{2}$ hours |
| C. 8 hours              | D. 6 hours              |
72. The value of  $79 - [128 - \{75 - (72 \div 16 \times 4) + (18 \times 2 \text{ of } 6) \boxed{4}\}]$  is:
- |       |       |
|-------|-------|
| A. 14 | B. 10 |
|-------|-------|

- C. 15 D. 17

73. 84 persons take 56 days to complete a certain task. When one-fourth of the task was completed one-seventh of the workers left. How many days in all does it take to complete the entire task?

A. 60 B. 64  
C. 66 D. 63

74. When an article is sold for Rs. 768, the profit percentage is  $x\%$ . When the same article is sold for Rs. 896, the profit percentage is  $(x + 20)\%$ . What is the value of  $x$ ?

A. 30 B. 25  
C. 15 D. 20

75. A 270-m-long train takes 24 seconds to cross a pole. If it takes 1 minute to cross a tunnel, then the length (in m) of the tunnel is:

A. 507 B. 405  
C. 408 D. 510

76. When did the World Trade Organization come into existence?

A. 1990 B. 2000  
C. 1995 D. 2005

77. What is Agraphia?

A. Loss of the ability to hear B. Loss of the ability to speak  
C. Loss of the ability to write D. Loss of the ability to understand

78. Which of the following monuments is also known as the 'Taj of the Deccan'?

A. Qutb Minar B. Bibi ka Maqbara  
C. Chand Minar D. Mahabat Maqbara

79. What does Ornithology deal with?

A. Study of fish B. Study of reptiles and amphibians  
C. Study of insects D. Study of birds

80. Who among the following developed the Cholera vaccine in 1885?

A. Edward Jenner B. Jaime Ferrán  
C. Jonas Salk D. Leon Calmette

81. Which of the following states has the highest coal reserve?

A. Chhattisgarh B. Odisha  
C. Jharkhand D. West Bengal



91. Under the rule of which king was the Sun Temple at Konark built?
- A. Anantha Padmanabhan      B. Samudragupta  
C. Narasimhadeva 1      D. Anantavarman Chodaganga
92. Anjum Moudgil won the 2019 Arjuna Award for which sport?
- A. Cricket      B. Shooting  
C. Weightlifting      D. Boxing
93. Ronald Reagan, the 40th President of the US, signed the largest tax cut in the history of their country in 1981. Which economic theory was this policy centred around?
- A. Laffer Curve      B. Lorenz Curve  
C. Kuznets Curve      D. Sweezy's Kinked Demand Curve
94. Which of the following was the first English language newspaper of India?
- A. Hicky's Bengal Gazette      B. Maratha  
C. The Madras Courier      D. The Bombay Herald
95. How many seats are allocated to Bihar in the Lok Sabha as per the state-wise list of the 17th Lok Sabha?
- A. 60      B. 40  
C. 78      D. 48
96. Who was the author of the book 'The Golden Threshold'?
- A. Dr Rajendra Prasad      B. Jawaharlal Nehru  
C. Sarojini Naidu      D. ZA Bhutto
97. The difference between Revenue Receipts plus Non-debt Capital Receipts (NDCR) and total expenditure is called \_\_\_\_\_.
- A. Revenue Deficit      B. Fiscal Deficit  
C. Effective Revenue Deficit      D. Primary Deficit
98. The two epics, 'Raghuvamsha' and 'Kumarasambhava' are works of \_\_\_\_\_.
- A. Valmiki      B. Ramdas  
C. Sivananda      D. Kalidas
99. Which of the following elements is NOT a component of baking soda?
- A. Hydrogen      B. Calcium  
C. Sodium      D. Oxygen
100. Nyctalopia, more commonly known as Night Blindness, is caused by the deficiency of which nutrient?
- A. Vitamin C      B. Magnesium

C. Potassium

D. Vitamin A

### Solutions

1. A

Sol. The idiom “**over the moon**” means extremely happy and excited.

Example: We were **over the moon** about our trip to Maldives.

Hence, **option A** is the correct answer.

2. B

Sol. Option B has incorrectly spelt word.

“Extravagant” is the correct spelling of the word “Extravagent”. It means spending a lot more money or using a lot more of something than one can afford or than is necessary.

The meaning of other words are:

Decorative: decorated in a way that makes it attractive; intended to look attractive or pretty.

Elaborate: very complicated and detailed.

Ornamental: used as decoration rather than for a practical purpose.

3. B

Sol. Option B has incorrectly spelt word.

“Absence” is the correct spelling of the word “Absense”. It means the fact of someone being away from a place where they are usually expected to be.

The meaning of other words are:

Persuasion: the act of persuading someone to do something.

Erroneous: not correct

Scenic: connected with scenery.

4. D

Sol. Irresponsible: not thinking enough about the effects of what they do.

Unreliable: that cannot be trusted or depended on.

Imprudent: not wise or sensible.

Impervious: not affected or influenced by something.

Hence, option D is the correct answer.

5. D

Sol. Let's understand the meaning of the given words:

Fluorescent= producing bright light by using some forms of radiation.

E.g.: This strap has a fluorescent coating that glows in the dark.

Elaborate = very complicated and detailed.

Flowery = covered with flowers or decorated with pictures.

Perfumed = to make the air in a place smell pleasant.

Glowing = to produce steady light that is not very bright.

E.g.: The lighted candles glowed in the darkness.

Hence, option D is the correct answer.

6. B

Sol. The idiom “Copycat” means someone who copies what someone else does because they have no ideas of their own.

Example: She is just a copycat who follows her sister's lead in everything.

Hence, option B is the correct answer.

7. A

Sol. The sentence is grammatically incorrect, and the error lies in option A. The error is related to Article.

\* “An” as a definite article is used before the countable nouns (having vowel sounds).

\* “A” as an indefinite article is used before the countable nouns (no vowel sounds).

For example:

He has an uncanny ability to predict what consumers will want.

The car was found abandoned in a nearby town.

\* In the given sentence, we have used article “a” before “auditorium” which has a vowel sound. This is wrong. Thus, article “an” should be used.

\* Note: Whenever adjective precedes the noun, article is put in accordance with the sound of adjective.

\* Hence, “in an auditorium” is the correct substitution.

Thus, the correct sentence will be:

Vijaya saw the play in an auditorium near her house.

Hence, option A is the correct answer.

8. B

Sol.

Dinghy: a small open boat that you sail or row.

Ferry: a boat or ship that carries people, vehicles and goods across a river or across a narrow part of the sea.

Freighter: a large ship or plane that carries goods.

Submarine: a ship that can travel underwater.

Hence, option B is the correct answer.

9. A

Sol. Let's understand the meaning of the given words:

Flimsy= thin and easily torn OR difficult to believe

E.g.: The flimsy structure of car could not withstand even mild impacts.

Strong = having a lot of physical power

E.g.: She is strong enough to lift a car.

Weak = not physically strong.

Tiny = very small in size or amount.

Clumsy = moving or doing things in a way that is not smooth or steady or careful.

Hence, option A is the correct answer.

10. C

Sol. The underlined part of the sentence is grammatically incorrect.

\* The underlined part needs correction in the adverb and the verb.

\* "Certainly" as an adverb is used to show "without doubt or definitely"

For example:

We certainly hope we can do this again.

\* "Certain" as an adjective is used to show "strongly believing something"

For example:

She wasn't certain that he had seen her.

\* In the underlined sentence, we need adverb for the verb "go" but we have used an adjective "certain". Thus, adverb "certainly" should be used in place of adjective "certain".

\* Also, the verb "going" should be used because verb is set in the sense of continuous activity and we have used the auxiliary "am" which can either take V-ing or an adjective.

\* Hence, "certainly going" is the correct substitution.

Thus, the correct sentence will be:

I'm certainly going to start studying from today.

Hence, option C is the correct answer.

11. A

Sol. Let us understand the meaning of the given words:-

- \* Conversation = an informal talk involving a small group of people or only two; the activity of talking in this way.
- \* Confidence = the feeling that one can trust, believe in and be sure about the abilities or good qualities.
- \* Conversion = the act or process of changing something from one form, use or system to another.
- \* Conviction = the act of finding someone guilty of a crime in court.

Now let's find out the correct fit for the blank:

- \* "Confidence" is used in context of "having belief in something" Thus, option B is incorrect.
- \* "Conversion" is used in context of "changing forms of something". Thus, option C is incorrect.
- \* "Conviction" is used in context of "find someone guilty". Thus, option D is incorrect.
- \* "Conversation" is used in context of "talking". Here in the given sentence, it refers to the discussion that happened between the two people.

Thus, "Conversation" becomes the correct word to fill in the blank.

Thus, the correct sentence will be: They looked at each other for a moment without speaking and then fell into a conversation.

12. D

Sol. The sentence is grammatically incorrect, and the error lies in option D. The error is related to Preposition.

- \* "With" as a preposition means having or carrying something.
- \* "On" as a preposition means in or into a position covering, touching or forming part of a surface.

For example:

We need your support to enable us to continue with our work.

There is a mark on your shirt.

- \* In the given sentence, we need the sense of carrying forward the idea of “building a modern school”.
- \* The phrase “continue with something” means to maintain the action that one has been doing.
- \* Thus, preposition “with” should be used in place of the preposition “on”.
- \* Hence, “to continue with” is the correct substitution.

Thus, the correct sentence will be:

Obi wanted to continue with his idea of building a modern school.

13. A

Sol. Let's understand the meaning of the given words:

Graceful= move in an attractive way that shows control

E.g.: She gave a graceful bow to the audience.

Elegant = attractive and showing a good sense of style.

E.g.: He is tall and elegant.

Dangerous = likely to injure or harm someone.

Pleasant = fun, attractive, or giving pleasure.

Friendly = behaving in a kind and pleasant way because you like someone or want to help them.

Hence, option A is the correct answer.

14. A

Sol. The underlined part of the sentence is grammatically incorrect.

\* The underlined part needs correction in conjunction.

\* “As” as a conjunction is used to show “while something else is happening”

For example:

As he grew older he gained in confidence.

\* “That” as a conjunction is used to show after some verbs, adjectives and nouns to introduce a new part of the sentence.

For example:

The fact that he is older than me is not relevant.

\* In the underlined sentence, we need a conjunction after the verb “find” to introduce a new part of the sentence i.e. “the snake was harmless.....to tease it mercilessly”.

There is no sense of “while something else is happening”. Thus, conjunction “that” should be used in place of conjunction “as”.

\* Also, the sentence is set in the past tense, so the usage of the first form of the verb “find” is wrong.

Thus, second form of verb “found” should be used in place of “find”.

\* Hence, “found out that” is the correct substitution.

Thus, the correct sentence will be:

Very soon, the people find out that the snake was harmless and the boys began to tease it mercilessly.

Hence, option A is the correct answer.

15. D

Sol. Let us understand the meaning of the given words:-

- \* Previous = (adjective) means happening or existing before the event or object you are talking about
- \* Earlier = (comparative adjective) means near the beginning of a period of time, an event etc.
- \* Ahead = (adverb) further forward in space or time; in front.
- \* Before = (preposition) earlier than someone/something.

Now let's find out the correct fit for the blank:

- \* “Previous” means happening before the event. Thus, option A is incorrect.
- \* “Earlier” means near the beginning of a period of time. Thus, option B is incorrect.
- \* “Ahead” means further forward in space or time. Thus, option C is incorrect.

\* "Before" as a preposition is used to show earlier than something. Here in the given sentence, it is used to show that the mobile phones should be turned off prior to entering the hall.

Thus, "Before" becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

Before entering the hall, please turn off your mobile phones.

16. B

Sol. Let's understand the meaning of the given words:

Defence= the act of protecting someone/something from attack, criticism etc.

E.g.: We have to say in her defence that she knew nothing about the accident.

Protection = the act of protecting someone/something

Offence = an illegal act OR feeling of being upset or angry at something that someone has said or done.

E.g.: This article may cause offence to some people.

Security = the activities involved in protecting a country, building or person against attack, danger etc.

Guard = person who protects a place or people.

Hence, option B is the correct answer.

17. A

Sol. The sentence is grammatically incorrect, and the error lies in option A. The error is related to Preposition.

\* “Pounce on/upon someone/something” means to move suddenly forward in order to attack or catch someone/something.

For example:

The muggers pounced on him as he got out of the car.

\* In the given sentence, we need the sense of “sudden movement” and for that appropriate preposition is “on” or “upon”. Thus, preposition “on” should be used in place of preposition “up”.

\* Hence, “on/upon the rat” is the correct substitution.

Thus, the correct sentence will be:

Slowly the dog, Spot, went towards it and pounced on the rat.

OR

Slowly the dog, Spot, went towards it and pounced upon the rat.

Hence, option A is the correct answer.

18. A

Sol. Let us understand the meaning of the given words:-

- \* Between = (preposition) is used to show in or into the space separating two or more points, objects, people etc.
- \* Across = (preposition) is used to show from one side to the other side of something.
- \* Around = (preposition) is used to show surrounding someone/something; on each side of something.
- \* Within = (preposition) is used to show before particular period of time has passed.

Now let's find out the correct fit for the blank:

- \* "Across" as a preposition is used to show from one side to another. Thus, option B is incorrect.
- \* "Around" as a preposition is used to show surrounding something. Thus, option C is incorrect.
- \* "Within" as a preposition is used to show before particular period of time. Thus, option D is incorrect.
- \* "Between" as a preposition is used to show in or into the space separating two things. Here in the given sentence, it is used to show space separating two towns where a mountain lies.

Thus, "Between" becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

Half-way between the two towns there was a mountain which had to be crossed.

19. B

Sol. The underlined part of the sentence is grammatically incorrect.

- \* The underlined part needs correction in verb.
- \* The first part of the sentence talks about a basket which had a dozen eggs in it (past).

- \* The use of the conjunction “but” shows that the situation has changed. “Now” tells us that he is talking about the current situation at hand. Thus, we will use the simple present tense in the underlined part.
- \* For the plural “six”, we will use “are” after “there”.
- \* Hence, “there are” is the correct substitution.

Thus, the correct sentence will be:

There were a dozen eggs in the basket, but now there are only six.

Hence, option B is the correct answer.

20. C

Sol. Let us understand the meaning of the given words:-

- \* Withdraws = (singular verb) to take money out of a bank account.
- \* Withdraw = second form of verb “withdraw”.
- \* Withdraw = plural form of verb “withdraws”.
- \* Withdrawn = third form of verb “withdraw”.

Now let's find out the correct fit for the blank:

- \* “Withdraws” is a singular verb but we need verb (first form) without s/es after the modal verb “can”. Thus, option A is incorrect.
- \* “Withdraw” is a second form of verb but we need verb (first form) without s/es after the modal verb “can”. Thus, option B is incorrect.

\* “Withdrawn” is a third form of verb “withdraw” but we need verb (first form) without s/es after the modal verb “can”. Thus, option D is incorrect.

\* "Withdraw" is a first form of verb without s/es. We need a verb (first form) without s/es after the modal verb “can”. Thus, it fits in the blank.

Thus, "Withdraw" becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

With your new credit card, you can withdraw up to Rs. 20,000 in a day.

21. C

Sol. The given passage is about “Zhu’s desire and Chinese tradition”.

“Will” is a modal verb that shows the possibilities in future. Thus, option A is wrong.

“Be” is the first form of verb “be”. Thus, option B is wrong.

“Are” is a plural helping verb and it is used in present tense. Thus, option D is wrong.

“Were” is a plural helping verb and it is used in past tense. Here it is used for plural subject “girls” and also it matches with the tense of the paragraph i.e. Past tense. The usage of time word “Long ago” shows that the paragraph is talking about something that happened in the past.

Hence, option C is the correct answer.

22. D

Sol. The given passage is about “Zhu’s desire and Chinese tradition”.

“Make” means to create something by combining materials or putting parts together. Thus, option A is wrong.

“Teach” means to give lessons to students in college, schools etc. Thus, option B is wrong.

“Produce” means to make things to be sold, especially in large quantities. Thus, option C is wrong.

“Do” as a verb means to work at or perform an activity or a task. In the given sentence, it is used to mention the task of doing “household work” by the girls.

Hence, option D is the correct answer.

23. D

Sol.

The given passage is about “Zhu’s desire and Chinese tradition”.

“Going” is the continuous form of verb “go”. Thus, option A is wrong.

“Goes” is the first form of verb “go” and it is usually used in present tense. Thus, option B is wrong.

“Go” is the first form of verb “go” without s/es and it is usually used in present tense. Thus, option C is wrong.

“Went” is the second form of verb “go” and it is used in past tense. Here in the given sentence, it shows the movement of boys to school. Also, the usage of time word “Long ago” shows that the paragraph is talking about something that happened in the past.

Hence, option D is the correct answer.

24. C

Sol. The given passage is about “Zhu’s desire and Chinese tradition”.

“For” as a preposition is used to show who is intended to have or use something or where something is intended to be put. Thus, option A is wrong.

“At” as a preposition is used to show where something/someone is or where something happens. Thus, option B is wrong.

“In as a preposition is used to show at a point within an area or a space. Thus, option D is wrong.

“To” as a preposition is used to show someone’s feeling about something. Here in the given sentence, it is used to show Zhu feeling i.e. “desire” to study.

Hence, option C is the correct answer.

25. B

Sol. The given passage is about “Zhu’s desire and Chinese tradition”.

“Treated” means to behave in a particular way towards someone/something. Thus, option A is wrong.

“Trained” means to teach a person or an animal the skills of a particular job or activity. Thus, option C is wrong.

“Prepared” means to make something/someone ready to be used or to do something. Thus, option D is wrong.

“Pampered” means to take care of someone very well and make them feel as comfortable as possible. In the given sentence, it is used to mention that Zhu was taken care of very well by her family members and she could have easily gone to school too.

Hence, option B is the correct answer.

26. D

Sol. These types of questions are solved by hit and trial method

So, choose 6 and 2

$$72 + 108 \div 9 - 11 \times 6 = 18$$

Now apply BODMAS

$$72+12-11 \times 6$$

$$72+12-66$$

$$84-66$$

$$=18$$

Hence, option D is the correct answer.

27. B

Sol.  $38 A 56 B 8 C 15 D (36 E 28) = 151$

These types of questions are solved by hit and trial method

$$38-56 \div 8 + 15 \times (36-28) = 151$$

Apply BODMAS

$$38-7+15 \times 8=151$$

$$38-7+120=151$$

$$31+120=151$$

$$\text{So, } 151=151$$

Hence, option B is the correct answer.

28. B

Sol.

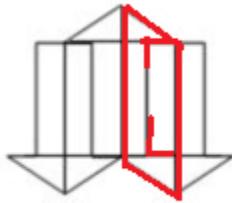


This is the best pictorial representation of relationship between village, intelligent and educated people.

Hence, option B is the correct answer.

29. B

Sol. The embedded figure is shown by red colour representation



Hence, option B is the correct answer.

30. C

Sol. The pattern followed is that the figures follow a cyclic movement.

Also, when a figure comes to the first position, the internal lines move 45° clockwise.



Hence, option C is the correct answer.

31. B

Sol. Young and old are parameter of measuring age, similarly Short is used to measure period.

Hence, option B is the correct answer.

32. D

Sol.

12345	$1^3$ $2^3$ $3^3$ $4^3$ $5^3$	1 8 27 64 125
65428	$6^3$ $5^3$ $4^3$ $2^3$ $8^3$	216 125 64 8 512

Hence, option D is the correct answer.

33. A

Sol. Logic follow here is = (sum of positional value of letter)\*(number of letter in word )

$$\text{House} = (8+15+21+19+5) * (5) = (68) * (5) = 340$$

$$\text{FOETUS} = (6+15+5+20+21+19) * (6) = 86 * 6 = 516$$

$$\text{CONSENT} = (3+15+14+19+5+14+20) * (7) = 90 * 7 = 630$$

Hence, option A is the correct answer.

34. C

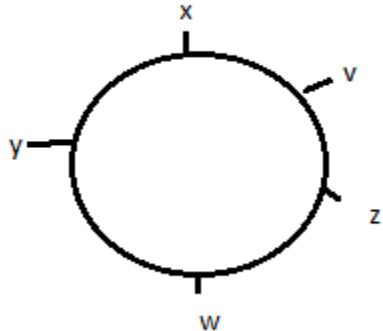
Sol. When the paper is folded and then cut as per the instruction given in the questions, pattern formed is given below.



Hence, option C is the correct answer.

35. A

Sol. The arrangement of people round the table as per the question is



So, Z is immediate left of V

Hence, option D is the correct answer.

36. D

Sol. The logic followed here is explained below

2 12 30 56 90 132 **182**

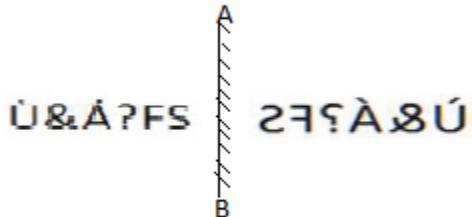
10 18 26 34 42 50

**8 8 8 8 8**

Hence, option C is the correct answer.

37. C

Sol. The mirror image formed is shown below



Hence, option C is the correct answer.

38. C

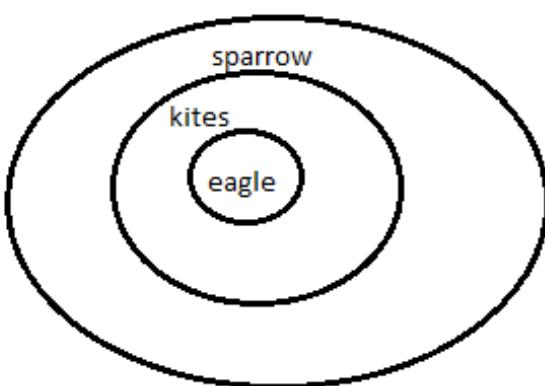
Sol. The logic here is that the difference between the positional value of letter is 10, which shown below through image

G+10	Q	Q+10	A	A+10	K
J+10	T	T+10	D	D+10	N
M+10	W	W+10	G	G+10	Q

Hence, option C is the correct answer.

39. D

Sol. The pictorial representation is shown below



### Conclusions:

I. All Sparrows are Eagles- false as all eagle are kites and all kites are sparrow so sparrow is bigger entity than eagle.

II. All Eagles are Sparrows- true, as all eagle are kites and all kites are sparrow so sparrow is bigger entity than eagle.

Hence, option D is the correct answer.

40. D

Sol. The figure that will complete the pattern is given below.

There is movement of image through  $45^\circ$  clockwise



Hence, option C is the correct answer.

41. C

Sol. The logic followed here is that each letter is either coded by its reverse letter or reverse letter + 1 alternatively -

$$O = L$$

$$R = I + 1 = J$$

$$G = T$$

$$A = Z + 1 = A$$

$$N = M$$

$$Z = A + 1 = B$$

$$A = Z$$

Similarly,

$$T = G$$

$$E = V + 1 = W$$

$$M = N$$

$$P = K + 1 = L$$

$$L = O$$

$$A = Z + 1 = A$$

$$T = G$$

$$E = V + 1 = W$$

Hence, option C is the correct answer.

42. B

Sol. Kohima is a capital of Nagaland similarly, Shillong is the Capital of Meghalaya.

Hence, option B is the correct answer.

43. A

Sol. 9 7 79

7 8 71

6 9 ?

$$79 = (9 \times 7) + (9 + 7) = 63 + 16 = 79$$

$$71 = (7 \times 8) + (7 + 8) = 56 + 15 = 71$$

$$? = (6 \times 9) + (6 + 9) = 54 + 15 = 69$$

Hence, option A is the correct answer.

44. C

Sol. The logic follow is explained below through tabular form.

H-2=F	B-2=Z
A+2=C	I+2=K
R-2=P	K-2=I
I+2=K	A+2=C
D-2=B	N-2=L
W+2=Y	E+2=G
A-2=Y	R-2=P
R+2=T	

Hence, option C is the correct answer.

45. C

Sol. The logic followed here is (sum of positional value of all letter +4)

$$\text{ORATORY} = (15+18+1+20+15+18+25 +4) = 116$$

$$\text{RAVENOUS} = (18+1+22+5+14+15+21+19+4 =)$$

$$\text{IRIDOLOGY} = (9+18+9+4+15+12+15+7+25+4) = 118$$

Hence, option C is the correct answer.

46. B

Sol. The representation of lecture as per the question on particular day is given below.

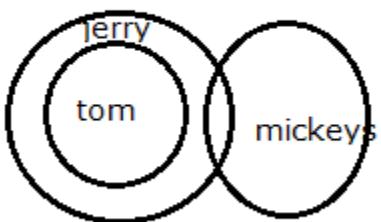
CURRENT AFFARIS	MONDAY
HOLIDAY	TUESDAY
QUALITY CIRCLE	WEDNESDAY
BANKING SYSTEM	THURSDAY
DECISION MAKING	FRIDAY
WORK MOTIVATION	SATURDAY
PERSONALITY DEVELOPMENT	SUNDAY

So, current affairs lecture will be organised on Monday

Hence, option B is the correct answer.

47. D

Sol.



**Conclusions:**

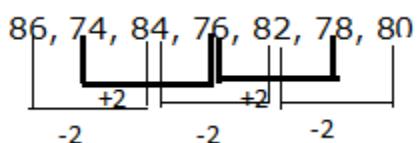
- I. Some Toms are Mickeys- false as there is no direct relationship between tom and mickeys.
- II. Some Toms are not Mickeys- false as there is no direct relationship between tom and mickeys.
- III. Some Jerrys are Toms- true as all Toms are Jerrys

Hence, option D is the correct answer.

48. B

Sol.

86, 74, 84, 76, ?, 78, 80



Hence, option B is the correct answer.

49. B

Sol. The pictorial representation of sitting arrangement as per the question is

O	L	N	M
S	P	R	Q

So, N is sitting in front of R

Hence, option B is the correct answer.

50. C

Sol. The logic followed here is explained through the tabular representation

F +4 = J	I+2
I +2 =K	N+4
N+4 =R	S
A+2 =C	I
L+4 =P	G
I +2=K	N
Z +4=D	I
E +2=G	A

Hence, option B is the correct answer.

51. C

Sol. The number which on being divided by 225, 250 and 275 leaves a remainder of 61 in each case = LCM of (225, 250 and 275) + 61

$$= 24750 + 61$$

Required, least number between 70000 and 75000 which on being divided by 225, 250 and 275 leaves a remainder of 61 in each case  $x = 24750 \times 3 + 61 = 74250 + 61 = 74311$

Therefore, sum of the digits of  $x = 7 + 4 + 3 + 1 + 1 = 16$

Hence, option C is correct.

52. D

Sol. We know that:

$$\text{Cost price} = \text{selling price} \times \frac{100}{(100 - \text{loss}\%)}$$

$$= 2604 \times \frac{100}{(100 - 7)}$$

$$= 2604 \times \frac{100}{93}$$

= 2800 Rs.

$$\text{Therefore, required profit when it is sold for 3094 Rs.} = \frac{(3094 - 2800)}{2800} \times 100 = \frac{294}{28} \times 100 = 10.5\%$$

Hence, option D is correct.

53. A

Sol. Ascending order – 7, 10, 11, 11, 12, 14, 14, 16, 17, 19, 20, 23, 30, 33

Total number of observations = 14

We know that:

$$\text{Median} = \frac{\text{7}^{\text{th}} \text{term} + \text{8}^{\text{th}} \text{term}}{2} = \frac{14 + 16}{2} = \frac{30}{2} = 15$$

Range = highest value – lowest value = 33 – 7 = 26

$$\text{Therefore, required mean of the median and range} = \frac{15 + 26}{2} = \frac{41}{2} = 20.5$$

Hence, option A is correct.

54. B

Sol. Given:

$$\text{Speed } s_1 = 4 \frac{1}{6} \text{ m/sec} = \frac{25}{6} \times \frac{18}{5} = 15 \text{ km/hr}$$

$$S_2 = 12 \text{ km/hr}$$

We know that:

$$\text{Average speed} = \frac{2s_1 s_2}{(s_1 + s_2)}$$

$$= \frac{2 \times 15 \times 12}{(15 + 12)}$$

$$= \frac{2 \times 15 \times 12}{27}$$

$$= \frac{40}{3}$$

$$= 13\frac{1}{3} \text{ km/hr}$$

Therefore, his average speed is  $13\frac{1}{3}$  km/hr.

Hence, option B is correct.

55. D

Sol.

$$\frac{3}{7} + \frac{1}{14} \times 2\frac{4}{5} - \left( \frac{1}{4} \div \frac{2}{7} \right) \times \left( 5\frac{1}{5} \div 3\frac{1}{2} \times \frac{5}{13} \right)$$

The value of

$$= \frac{3}{7} + \frac{1}{14} \times \frac{14}{5} - \left( \frac{1}{4} \times \frac{7}{2} \times \frac{3}{7} \right) \times \left( \frac{26}{5} \times \frac{2}{7} \times \frac{5}{13} \right)$$

$$= \frac{3}{7} + \frac{1}{5} - \left( \frac{3}{8} \right) \times \left( \frac{4}{7} \right)$$

$$= \frac{3}{7} + \frac{1}{5} - \frac{3}{14}$$

$$= \frac{30 + 14 - 15}{70}$$

$$= \frac{29}{70}$$

Hence, option D is correct.

56. C

Sol. Given:

$$A : B = 2 : 3$$

$$\text{Now, the value of } A = \frac{8}{(3-2)} \times 2 = \frac{8}{1} \times 2 = 16$$

$$\text{The value of } B = \frac{8}{(3-2)} \times 3 = \frac{8}{1} \times 3 = 24$$

According to question,

$$\Rightarrow \frac{16+k}{24+k} = \frac{7}{9}$$

$$\Rightarrow 144 + 9k = 168 + 7k$$

$$\Rightarrow 9k - 7k = 168 - 144$$

$$\Rightarrow 2k = 24$$

$$\Rightarrow k = 12$$

Therefore, the value of k is 12.

Hence, option C is correct.

57. B

Sol.

58. D

Sol. Let the cost price of the article =  $x$

$$\text{Marked price of the article} = (x) \times \frac{(100 + 24)}{100} = \frac{124x}{100} = \frac{31x}{25}$$

$$\text{Selling price of the article} = \left( \frac{124x}{100} \right) \times \frac{(100 - 15)}{100} = \left( \frac{124x}{100} \right) \times \frac{85}{100} = \frac{527x}{500}$$

We know that:

Profit = selling price – cost price

$$\Rightarrow 27 = \frac{527x}{500} - x$$

$$\Rightarrow 27 = \frac{527x - 500x}{500}$$

$$\Rightarrow 27 = \frac{27x}{500}$$

$$\Rightarrow x = 500 \text{ Rs.}$$

$$\frac{527x}{500} = \frac{527 \times 500}{500}$$

Therefore, the selling price of the article =  $\frac{527 \times 500}{500} = 527 \text{ Rs.}$

Hence, option D is correct.

59. B

Sol.

$$\frac{\frac{3\frac{1}{4}}{4} - \frac{4}{5} \text{ of } \frac{5}{6}}{\frac{4\frac{1}{3}}{3} \div \frac{1}{5} - \left( \frac{3}{10} + 21\frac{1}{5} \right)} - \left( 2\frac{2}{3} \text{ of } 1\frac{1}{2} \right)$$

The value of

By using BODMAS rule –

$$= \frac{\frac{13}{4} - \frac{4}{5} \times \frac{5}{6}}{\frac{13}{3} \times 5 - \left( \frac{3}{10} + \frac{106}{5} \right)} - \left( \frac{8}{3} \times \frac{3}{2} \right)$$

$$= \frac{\frac{13}{4} - \frac{2}{3}}{\frac{65}{3} - \left( \frac{3+212}{10} \right)} - 4$$

$$= \frac{\frac{(39-8)}{12}}{\left( \frac{65}{3} - \frac{215}{10} \right)} - 4$$

$$= \frac{\left( \frac{31}{12} \right)}{\left( \frac{65}{3} - \frac{43}{2} \right)} - 4$$

$$= \frac{\left( \frac{31}{12} \right)}{\left( \frac{130-129}{6} \right)} - 4$$

$$= \frac{31}{12} \times 6 - 4$$

$$= \frac{31}{2} - 4$$

$$= \frac{(31-8)}{2}$$

$$= \frac{23}{2}$$

$$= 11\frac{1}{2}$$

Hence, option B is correct.

60. C

Sol. Let the shares of A =  $5x + 130$

$$\text{Shares of B} = 2x + 150$$

$$\text{Shares of C} = 4x + 200$$

According to question,

$$\Rightarrow 5x + 130 + 2x + 150 + 4x + 200 = 3780$$

$$\Rightarrow 11x + 480 = 3780$$

$$\Rightarrow 11x = 3780 - 480$$

$$\Rightarrow x = \frac{3300}{11}$$

$$\Rightarrow x = 300$$

Therefore, the original share of C =  $4x + 200 = 4 \times 300 + 200 = 1400$  Rs.

Hence, option C is correct.

61. B

Sol. We can write  $6x$  as  $(60 + x)$  and  $x4$  as  $(10x + 4)$

We know that:

$$\text{Average} = \frac{\text{sum of all values}}{\text{number of all values}}$$

$$\Rightarrow 65 = \frac{49 + 60 + x + 10x + 4 + 70}{4}$$

$$\Rightarrow 260 = 183 + 11x$$

$$\Rightarrow 11x = 260 - 183$$

$$\Rightarrow 11x = 77$$

$$\Rightarrow x = 7$$

$$\frac{(x+8)+(x+12)}{2} = \frac{(7+8)+(7+12)}{2} = \frac{34}{2}$$

Therefore, required average =  $\frac{(x+8)+(x+12)}{2} = \frac{(7+8)+(7+12)}{2} = \frac{34}{2} = 17$

Hence, option B is correct.

62. B

Sol. We know that:

$$\text{Amount} = p \left(1 + \frac{r}{100}\right)^t$$

$$\Rightarrow 7200 = 5760 \left(1 + \frac{r}{100}\right)^4$$

$$\Rightarrow \left(1 + \frac{r}{100}\right)^4 = \frac{7200}{5760}$$

$$\Rightarrow \left(1 + \frac{r}{100}\right)^4 = \frac{5}{4} \dots\text{eq1}$$

Now,

$$\text{After 12 years Amount } x = 5760 \times \left(1 + \frac{r}{100}\right)^{12}$$

$$x = 5760 \times \left(\left(1 + \frac{r}{100}\right)^4\right)^3 \dots\text{eq2}$$

$$\text{By putting value of } \left(1 + \frac{r}{100}\right)^4 \text{ from eq1}$$

$$\Rightarrow x = 5760 \times \left(\frac{5}{4}\right)^3$$

$$\Rightarrow x = 5760 \times \frac{5}{4} \times \frac{5}{4} \times \frac{5}{4}$$

$$\Rightarrow x = 11250 \text{ Rs.}$$

Therefore, the value of x is 11250 Rs.

Hence, option B is correct.

63. B

Sol.

$$\text{The number of students in school B} = \frac{5400 \times \frac{117}{360}}{360} = 1755$$

$$\text{Total number of students in schools D and E} = \frac{5400 \times \frac{(50+52)}{360}}{360} = \frac{5400 \times \frac{102}{360}}{360} = 1530$$

The difference between the number of students in school B and the total number of students in schools D and E =  $1755 - 1530 = 225$

Therefore, the value of P lies between 220 and 230.

Hence, option B is correct.

64. C

Sol.

$$\text{Total number of students in schools A, B and C} = \frac{\frac{(75+117+66)}{360} \times 5400}{360} = \frac{258}{360} \times 5400 = 3870$$

$$\text{The average number of students in schools A, B and C} = \frac{\frac{3870}{3}}{3} = 1290$$

$$\text{The number of students in school E} = 5400 \times \frac{\frac{50}{360}}{360} = 750$$

Therefore, required percentage =  $\frac{(1290 - 750) \times 100}{750} = \frac{540}{750} \times 100 = 72\%$

Hence, option C is correct.

65. D

Sol. The number of students in school B =  $\frac{5400 \times 117}{360} = 1755$

Number of girls in school B =  $\frac{1755}{(6+7)} \times 7 = \frac{1755}{13} \times 7 = 945$

Number of students in school D =  $\frac{5400 \times 52}{360} = 780$

Number of Girls in school D =  $780 \times \frac{(100 - 40)}{100} = 780 \times \frac{60}{100} = 468$

Therefore, required total number of girls in school B and D =  $945 + 468 = 1413$

Hence, option D is correct.

66. B

Sol. Let the sum be x Rs.

We know that:

Simple interest =  $\frac{P \times R \times T}{100}$

According to the question,

$$\Rightarrow (x) + \frac{(x) \times r \times 3}{100} = \frac{(x) \times r \times 13}{100}$$

$$x = \frac{10xr}{100}$$

$$\frac{13x - 3x}{100} \rightarrow x =$$

$$\Rightarrow r = 10\%$$

Therefore, the value of  $r$  is 10%

Hence, option B is correct.

67. B

Sol. Let the height by which the water will rise in the vessel =  $h$  cm

We know that volume of a cube = (side)<sup>3</sup>

Volume of a cylinder =  $\pi r^2 h$

According to question,

$$12 \times 12 \times 12 = \frac{12 \times 12 \times 12 \times 7}{22 \times 20 \times 20}$$

$$\frac{22 \times 20 \times 20}{7} h \rightarrow h =$$

$$h = 1.37 \text{ cm}$$

Therefore, the height by which the water will rise in the vessel is 1.4 cm

Hence, option B is correct.

68. D

Sol. According to the question,

$$\frac{180 \times x}{100} = (x + 350) \times \frac{(100 - 25)}{100}$$

$$\frac{180 \times x}{100} = (x + 350) \times \frac{75}{100}$$

$$\Rightarrow \frac{9x}{5} = (x + 350) \times \frac{3}{4}$$

$$\frac{13x - 3x}{100} = 350 \times \frac{3}{4}$$

$$\Rightarrow \frac{36x - 15x}{20} = \frac{525}{2}$$

$$\frac{21x}{20} = \frac{525}{2}$$

$$x = \frac{525 \times 20}{2 \times 21}$$

$$x = 250$$

Now, the value of 18% of  $(x + 50)$  =  $\frac{(250 + 50) \times 18}{100} = \frac{300 \times 18}{100} = 54$

The value of 12% of  $x$  =  $\frac{250 \times 12}{100} = 30$

Therefore, required percentage =  $\frac{(54 - 30)}{30} \times 100 = \frac{24}{30} \times 100 = 80\%$

Hence, option D is correct.

69. A

Sol. Let the radius of a circle be  $r$  cm.

We know that:

Area of a right-angle triangle =  $\frac{1}{2} \times \text{Base} \times \text{height}$

According to question,

$$\pi r^2 = \left( \frac{1}{2} \times 20 \times 21 + \frac{1}{2} \times 60 \times 11 \right) \times \frac{77}{30}$$

$$\frac{22}{7} r^2 = 540 \times \frac{77}{30}$$

$$\frac{540 \times 77 \times 7}{22 \times 30}$$

$$r^2 = \frac{1098}{17}$$

$$r^2 = 441$$

$$r = 21 \text{ cm}$$

Therefore, the radius of the circle is 21 cm.

Hence, option A is correct.

70. A

Sol. Sum of all 18 numbers =  $18 \times 65 = 1170$

Sum of first 10 numbers =  $10 \times 72 = 720$

Sum of last 9 numbers =  $9 \times 58 = 522$

Now, the value of 10<sup>th</sup> number =  $720 + 522 - 1170 = 72$

If 10<sup>th</sup> number is excluded, then sum of remaining 17 numbers =  $1170 - 72 = 1098$

Therefore, required average of 17 numbers =  $13\frac{1}{3} = 64.6$

Hence, option A is correct.

71. B

Sol. Let the total work = LCM of 8, 12,  $\frac{120}{8} = 120$  units

$$\text{Efficiency of A} = \frac{120}{12} = 15 \text{ units/hour}$$

$$\text{Efficiency of B} = \frac{\frac{120}{40}}{\left(\frac{40}{3}\right)} = 10 \text{ units/hour}$$

$$\text{Efficiency of all three pipes} = \frac{\frac{120 \times 3}{40}}{\frac{120}{16}} = 9 \text{ units/hour}$$

$$\text{Efficiency of outlet pipe C} = 9 - 15 - 10 = -16 \text{ units/hour}$$

Therefore, required time taken by C to empty the full tank =  $\frac{1}{-16} = 7\frac{1}{16}$  hours

Hence, option B is correct.

72. A

Sol. The value of  $79 - [128 - \{75 - (72 \div 16 \times 4) + (18 \times 2 \text{ of } 6)\}]$

By using BODMAS rules –

$$= 79 - [128 - \{75 - 18 + 6\}]$$

$$= 79 - 56 \times \frac{1}{4}$$

$$= 79 - [128 - 63]$$

$$= 79 - 65$$

$$= 14$$

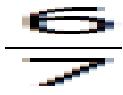
Hence, option A is correct.

73. D

Sol. If 84 persons take 56 days to complete a certain work, then they will complete one-fourth of

$$\text{the task} = \frac{1}{\frac{1}{4}} = 14 \text{ days}$$

$$\text{Remaining work} = 1 - \frac{3}{4} = \frac{1}{4}$$

If one-seventh of the workers left, then remaining worker =  =  $84 \times \frac{6}{7} = 72$

We know that:

$$W = MDH$$

According to question,

$$\frac{1 \times 4}{4 \times 3} = \frac{84 \times 14}{72 \times (x)}$$

$$\frac{(100 + \text{profit}\%)}{100}$$

$$\frac{100 + 20}{100} x = 49 \text{ days}$$

Therefore, required total time to complete the entire task =  $49 + 14 = 63$  days

Hence, option D is correct.

74. D

Sol. Let the cost price of the article be P Rs.

We know that:



Selling price = cost price  $\times$

According to question,

$$\frac{(100+x+20)}{100} - P \times \frac{(100+x)}{100} = 896 - 768$$

$$\frac{P}{100} [(120+x) - (100+x)] = 128$$

$$\frac{P}{100} \times 20 = 128$$

$$P = 640 \text{ Rs.}$$

Now,

$$\text{If an article is sold for Rs. 768, then profit percentage } x = \frac{(768 - 640)}{640} \times 100 = \frac{128}{640} \times 100 = 20\%$$

Therefore, required value of  $x = 20\%$

Hence, option D is correct.

75. B

Sol. Given:

Length of the train = 270 m

Time = 24 sec.

We know that:

$$\text{Speed} = \frac{\text{distance}}{\text{time}}$$

$$= \frac{270}{24}$$

$$= \frac{45}{4} \text{ m/sec}$$

Total length of train and tunnel = speed  $\times$  time

$$\begin{aligned} & \frac{45}{4} \\ &= \frac{45}{4} \times 60 \\ &= 675 \end{aligned}$$

Therefore, the length of the tunnel =  $675 - 270 = 405$  m

Hence, option B is correct.

76. C

- Sol. • **The World Trade Organization came into existence in 1995.**  
• It is an **intergovernmental organization that regulates and facilitates international trade between nations.**  
• It is the **world's largest international economic organization with 164 member states representing over 98% of global trade and global GDP.**  
• It facilitates **trade in goods, services and intellectual property among participating countries by providing a framework for negotiating trade agreements.**  
• It is an **international organization established to supervise and liberalize world trade.**

77. C

- Sol. • **Agraphia is a Loss of the ability to write.**  
• It can be **broadly divided into central and peripheral categories.**  
• **Aphasia is the loss of the ability to understand.**  
• It is an **inability to comprehend or formulate language because of damage to specific brain regions.**  
• **Anakusis is the Loss of the ability to hear.**  
• The Four Types of Hearing Loss  
a) **Sensorineural Hearing Loss**  
b) **Conductive Hearing Loss**  
c) **Mixed Hearing Loss**  
d) **Neuropathy Spectrum Disorder**

78. B

- Sol. • **Bibi ka Maqbara** is also known as the 'Taj of the Deccan'.  
• It is a tomb located in Aurangabad, Maharashtra and It was commissioned in 1660 by the Mughal emperor Aurangzeb.  
• It is the second-largest structure that Aurangzeb has built.  
• **Qutb Minar** is one of the most visited tourist spots in the city and It is a UNESCO World Heritage Site.  
• **Chand Minar** or the Tower of the Moon is a medieval tower in Daulatabad, India.  
• **Mahabat Maqbara** is a mausoleum in Junagadh, Gujarat and It is dedicated to Mahabat Khan II.

79. D

- Sol. • **Ornithology** deals with the study of birds.  
• It is a branch of zoology that concerns the methodological study and consequent knowledge of birds with all that relates to them.  
• **Ichthyology** is the branch of zoology devoted to the study of fish.  
• **Entomology** is the scientific study of insects and Reverend William Kirby is the Father of Modern Entomology.  
• **Herpetology** is the scientific study of amphibians and reptiles.  
• **Amphibians** are a class of cold-blooded vertebrates made up of frogs, toads, salamanders, newts and caecilians.

80. B

- Sol. • **Jaime Ferrán** developed the Cholera vaccine in 1885.  
• **Cholera vaccines** are vaccines that are effective at preventing cholera.  
• It is on the **World Health Organization's List of Essential Medicines**.  
• **Edward Jenner** is known for **smallpox vaccine vaccination** and He is often called the father of immunology.

- Jonas Edward Salk developed **one of the first successful polio vaccines**.
- Leon Calmette is best known for establishing the live, attenuated strain of the **tubercle bacillus**.

81. C

Sol. • **Jharkhand has the highest coal reserve.**

- It is the **15th largest state by area** and the **14th largest by population**.
- It is **amongst the leading states in terms of economic growth**.
- **West Bengal** is the abode of art and **culture which is a perfect mixture of tradition and modernity**.
- **Chhattisgarh** is a **landlocked & heavily forested state** and **one of the fastest-developing states in India**.
- **Odisha** has the **third-largest population of Scheduled Tribes in India**.
- It is **known for its rich history & culture** and It lies on the **east coast of the Indian subcontinent**.

82. A

Sol. • **The European Champions Cup or Heineken Cup is associated with Rugby.**

- It is an **annual rugby union tournament organized by European Professional Club Rugby**.
- It is the **top-tier competition for clubs whose countries' national teams compete in the Six Nations Championship**.
- **Rugby** is a **close-contact team sport that originated in England in the first half of the 19th century**.
- **Football** is a **family of team sports that involve, to varying degrees, kicking a ball to score a goal**.
- **Hockey** is the **oldest known ball and sticks game**.

83. C

- Sol. • The procedure for the nomination of members to the Rajya Sabha in the Constitution of India is borrowed from Ireland.  
• Directive Principles of State Policy & Method of Election of the president are also borrowed from Ireland.  
• Fundamental Rights are suspended during Emergencies are borrowed from Germany.  
• Fundamental duties and the ideals of justice are expressed in the Preamble are borrowed from Russia.  
• Impeachment of the president, Functions of president & vice-president, Fundamental Rights, Judicial review & Independence of judiciary is borrowed from the USA.

84. D

- Sol. • Ten Degree Channel separates the Andaman and the Nicobar Islands.  
• This channel is 150 kilometres wide from north to south.  
• Duncan Passage is a strait in the Indian Ocean.  
• It separates Rutland Island to the north and Little Andaman to the south.  
• Maliku Kandu is the traditional name of the broad channel between Minicoy and Ihavandippulhu.  
• The Palk Strait is a strait between the Tamil Nadu state of India and the Jaffna District of the Northern Province of the island nation of Sri Lanka.

85. C

- Sol. • The Paithani saree weaving industry is in Maharashtra.  
• It is a sari made of silk and zari.  
• There are three types of silk threads used:  
a) Charkha  
b) Ciddle-Gatta  
c) China silk  
• Maharashtra is the most populous urban area and the most industrialized state in India.

- **Gujarat** is widely considered one of the **most industrially developed states of India** and a **manufacturing hub**.
- **Assam** is known for **Assam tea & Assam silk** and the **first site for oil drilling in Asia**.

86. B

- Sol.
- **The Veda Samaj was established in 1864 in Madras (now Chennai).**
  - It was established by Keshab Chandra Sen and K. Sridharlu Naidu.
  - It was an **extremely important social reform in Southern India**.
  - It was established by the efforts of Sridharlu Naidu and Keshab Chandra Sen.
  - **Chennai** is the **most prominent cultural, economic and educational centre of South India**.
  - It is the **sixth-most populous city in the country** and the **fourth-most populous urban agglomeration**.

87. D

- Sol.
- **Sringaverapura** had a water harvesting system channelling the flood water of the **Ganga river in the first century B.C.**
  - **Mirzapur** is known for its **carpets & brassware industries** and It has many **waterfalls** and **natural spots**.
  - **Gorakhpur** has been the **land of ancient glory and medieval mysticism**.
  - **Kanpur** became **one of the most important commercial and military stations of British India**.
  - It is **famous for its colonial architecture, gardens, parks and fine quality leather products**.
  - The **Ganges** is a **transboundary river of Asia that flows through India and Bangladesh**.

88. B

- Sol.
- **Article 360 of the Constitution of India provided with Financial emergency.**

- It empowers the **president** to proclaim a financial emergency if he is satisfied that a situation has arisen due to financial stability.
- The right to property is often classified as a **human right** for natural persons regarding their possessions.
- It is recognized in Article 17 of the Universal Declaration of Human Rights.
- **Fundamental Duties** are defined as the moral obligations of all citizens to help promote a spirit of patriotism and to uphold the unity of India.

89. A

- Sol. • 'Harshacharita' is the biography of Indian Emperor Harsha, written by Banabhatta.  
• It is considered to be the beginning of the writing of historical poetic works in the Sanskrit language.  
• Banabhatta was a 7th-century Sanskrit prose writer and poet of India.  
• Valmiki is the first author in all history to bring himself into his own composition.  
• Rabindranath Tagore was the first non-European and the first lyricist to win the Nobel Prize in Literature.  
• He is best known as a poet but he was a man of many talents.

90. A

- Sol. • The 'Veeragase' dance, performed during the Dussehra festival holds a special place in the folk dances of the state of Karnataka.  
• It is a vigorous dance based on Hindu mythology.  
• It involves very intense energy-sapping dance movements performed by Jangama.  
• It is performed during festivals and mainly in the Hindu months of Shravana and Karthika.  
• It is performed at all important functions of Lingayat households.  
• Karnataka is the eighth largest state by population and the sixth-largest Indian state by area.

91. C

- Sol. • **Narasimhadeva 1 was the Sun Temple built at Konark.**  
• **Konarak Sun temple** is dedicated to the **Hindu sun god Surya**.  
• It is depicted on the reverse side of the Indian currency note of 10 rupees to signify its importance to Indian cultural heritage.  
• **Anantavarman Chodagangadeva** was a renowned Ganga dynasty king.  
• **Samudragupta** was a ruler of the Gupta Empire of Ancient India and the second emperor of the Gupta dynasty.  
• He is known chiefly for his numerous military campaigns and he was the first significant ruler of the Gupta Dynasty.

92. B

- Sol. • **Anjum Moudgil won the 2019 Arjuna Award for Shooting.**  
• She is supported by GoSports Foundation through the Rahul Dravid Athlete Mentorship Programme.  
• She is an avid abstract artist and has sold many of her artworks.  
• The Arjuna Award is the second-highest sporting honour of India.  
• It was instituted in 1961 to honour the outstanding sportspersons of the country.  
• The first recipient of the Arjuna Award was Krishna Das awarded in the field of Archery in 1961.

93. A

- Sol. • **Ronald Reagan, the 40th President of the US, signed the largest tax cut in the history of their country in 1981 and this policy centred around the Laffer Curve.**  
• He served as the **40th president of the United States from 1981 to 1989**.  
• **Laffer Curve** is a theory formalized by the supply-side to show the relationship between tax rates and the amount of tax revenue collected by governments.  
• **The Lorenz curve** is a graphical representation of the distribution of income or of wealth.

- **Kuznets curve** expresses a **hypothesis advanced by economist Simon Kuznets in the 1950s and 1960s.**

94. A

- Sol.
- **Hicky's Bengal Gazette** was the first English-language newspaper of India.
  - It was the first newspaper printed in Asia and was published for two years.
  - It was important for its provocative journalism and its fight for free expression in India.
  - **Madras Courier** was the first newspaper to be published in Madras and It was started by Richard Johnston.
  - **Bombay Herald** was among the first English newspapers published in Bombay, India.
  - The newspaper continued to be published up to the early 1900s.

95. B

- Sol.
- 40 seats are allocated to Bihar in the Lok Sabha as per the state-wise list of the 17th Lok Sabha.
  - The 17th Lok Sabha was formed by the members elected in the 2019 Indian general election.
  - It has the highest ever number of women politicians with a total of 78 which is nearly 14%.
  - It was elected in May 2019 and is the latest to date.
  - The Lok Sabha is the lower house of India's bicameral Parliament.
  - The maximum membership of the House allotted by the Constitution of India is 552.

96. C

- Sol.
- **Sarojini Naidu** was the author of the book 'The Golden Threshold'.
  - She was an important figure in India's struggle for independence from colonial rule.
  - **Dr. Rajendra Prasad** was the first president of India from 1950 to 1962.
  - **Jawaharlal Nehru** was the first Prime Minister of India.

- He was a **principal leader of the Indian nationalist movement in the 1930s and 1940s.**
- **ZA Bhutto** served as the **ninth Prime Minister of Pakistan from 1973 to 1977.**
- He was also the **founder of the Pakistan People's Party.**

97. B

- Sol.
- **The difference between Revenue Receipts plus Non-debt Capital Receipts (NDCR) and total expenditure is called Fiscal Deficit.**
  - **Fiscal Deficit** is calculated as a **percentage of its GDP** and **for the current financial year, the government expects the deficit at 6.8% of GDP.**
  - **Revenue deficit** shows a **shortage of funds with the government to maintain its day-to-day affairs.**
  - **Effective revenue deficit** refers to the **difference between fiscal deficit and grants for the creation of capital assets.**
  - It signifies the **number of capital receipts that are being used for the actual consumption expenditure of the government.**
  - **Primary deficit** is known as the **difference between the current year's fiscal deficit and the interest payment on the earlier borrowings.**

98. D

- Sol.
- **The two epics, 'Raghuvamsha' and 'Kumarasambhava' are works of Kalidas.**
  - **Raghuvamsa** is a **mahakavya containing 1564 stanzas.**
  - **Kumarasambhava** is widely regarded as the **finest work of Kalidasa as well as the greatest kavya poem in Classical Sanskrit.**
  - **Kalidas** is often considered **ancient India's greatest poet and playwright.**
  - **Sivananda** was the **founder of the Divine Life Society in 1936.**
  - **Valmiki** is celebrated as the **harbinger-poet in Sanskrit literature.**

99. B

- Sol.
- **Calcium is not a component of baking soda.**

- It is the **most abundant mineral in the body** and is an **essential nutrient found in many foods**.
- **Sodium** is a **soft, silvery-white, highly reactive metal** and It is the **sixth most abundant element in the Earth's crust**.
- **Hydrogen** is the **lightest element** and the **most abundant chemical substance in the universe**.
- **Oxygen** is **Earth's most abundant element** and the **third-most abundant element in the universe**.
- **Hydrogen** is the **lightest element** and the **most abundant chemical substance in the universe**.

100. D

- Sol.
- **Nyctalopia, more commonly known as Night Blindness, is caused by the deficiency of Vitamin A.**
  - It is a **condition making it difficult or impossible to see in relatively low light**.
  - **Vitamin C** is a **water-soluble vitamin** and It is **used to prevent and treat scurvy**.
  - **Magnesium** is the **eighth-most abundant element in the Earth's crust** and the **fourth most common element in the Earth**.
  - **Potassium** is **one of the most important minerals in the body**.
  - It plays a **role in keeping your heartbeat regular and your muscles working right**.

# Mock Test Solutions in Hindi

## Questions

1. Select the most appropriate meaning of the given idiom.

## Over the moon



2. Select the INCORRECTLY spelt word.

- |               |                |
|---------------|----------------|
| A. Decorative | B. Extravagant |
| C. Elaborate  | D. Ornamental  |

- 3. Select the INCORRECTLY spelt word**

- A. Persuasion
  - B. Absense
  - C. Erroneous
  - D. Scenic

4. Select the most appropriate one-word substitution for the given group of words.

A person who remains unmoved and unaffected by other people's opinions, suggestions

- |                  |               |
|------------------|---------------|
| A. Irresponsible | B. Unreliable |
| C. Imprudent     | D. Impervious |

5. Select the most appropriate synonym of the given word.

## FLUORESCENT

- |              |            |
|--------------|------------|
| A. elaborate | B. flowery |
| C. perfumed  | D. Glowing |

6. Select the most appropriate meaning of the given idiom.

## Copycat

- A. One who loves cats and dogs      B. One who imitates another closely  
C. One who copies all drawings of cats      D. One who doesn't like cats as pets

7. Identify the segment in the sentence which contains a grammatical error.

Vijaya saw the play in a auditorium near her house.

- A. in a auditorium
- B. near her house
- C. the play
- D. Vijaya saw

8. Select the most appropriate one-word substitution for the given group of words.

A boat or ship for conveying passengers and goods, especially over a relatively short distance and as a regular service

- A. Dinghy
- B. Ferry
- C. Freighter
- D. Submarine

9. Select the most appropriate ANTONYM of the given word.

FLIMSY

- A. strong
- B. weak
- C. tiny
- D. Clumsy

10. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

I'm certain go to start studying from today.

- A. certain going
- B. certainly go
- C. certainly going
- D. No substitution required

11. Select the most appropriate option to fill in the blank.

They looked at each other for a moment without speaking and then fell into a \_\_\_\_\_.

- A. conversation
- B. confidence
- C. conversion
- D. Conviction

12. Identify the segment in the sentence which contains a grammatical error.

Obi wanted to continue on his idea of building a modern school.

- A. building a modern school
- B. Obi wanted
- C. his idea of
- D. to continue on

13. Select the most appropriate synonym of the given word.

GRACEFUL

A. elegant

B. dangerous

C. pleasant

D. Friendly

14. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Very soon, the people find out as the snake was harmless and the boys began to tease it mercilessly.

A. found out that

B. finds out but

C. No substitution required

D. finding out so

15. Select the most appropriate option to fill in the blank.

\_\_\_\_\_ entering the hall, please turn off your mobile phones.

A. Previous

B. Earlier

C. Ahead

D. Before

16. Select the most appropriate ANTONYM of the given word.

DEFENCE

A. protection

B. offence

C. security

D. Guard

17. Identify the segment in the sentence which contains a grammatical error.

Slowly the dog, Spot, went towards it and pounced up the rat.

A. up the rat

B. and pounced

C. went towards it

D. Slowly the dog, Spot

18. Select the most appropriate option to fill in the blank.

Half-way \_\_\_\_\_ the two towns, there was a mountain which had to be crossed.

A. between

B. across

C. around

D. Within

19. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

There were a dozen eggs in the basket, but now there will be only six.

A. there been

B. there are

With your new credit card, you can \_\_\_\_\_ up to Rs. 20,000 in a day.

- A. withdraws
  - B. withdrew
  - C. withdraw
  - D. Withdrawn

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

Long ago in China, at a time when girls (1) \_\_\_\_\_ expected to stay at home and (2) \_\_\_\_\_ household work while the boys (3) \_\_\_\_\_ to school, a girl named Zhu had a desire (4) \_\_\_\_\_ study. Her family was wealthy and Zhu was (5) \_\_\_\_\_ so she too could have had her wish, but her father did not want to go against tradition.

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



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



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

- A. going
  - B. goes
  - C. go
  - D. Went

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



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

- |            |             |
|------------|-------------|
| A. treated | B. pampered |
| C. trained | D. Prepared |

26. दिए गए समीकरण को संतुलित करने के लिए किन दो अंकों को आपस में बदला जा सकता है?

$$76 + 108 \div 9 - 11 \times 2 = 18$$

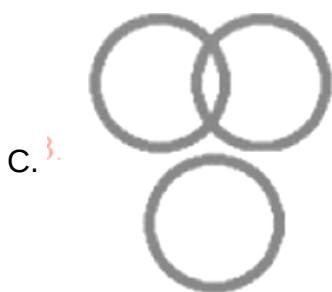


$$38 \text{ A } 56 \text{ B } 8 \text{ C } 15 \text{ D } (36 \text{ E } 28) = 151$$

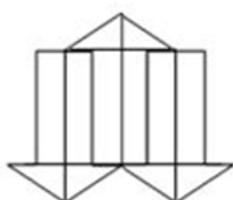
- A.  $- \times + \div -$       B.  $- \div + \times -$   
C.  $+ \div \times - +$       D.  $\times - \div + -$

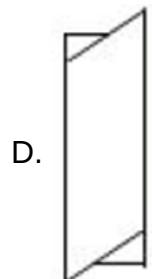
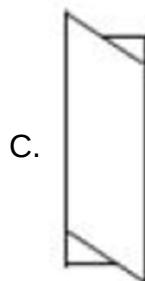
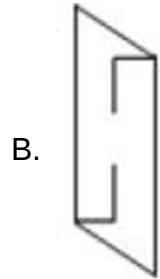
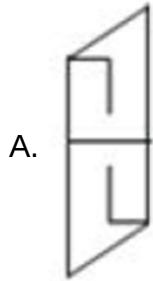
28. उस वेन आरेख का चयन करें जो निम्नलिखित वर्गों के बीच संबंध को सर्वोत्तम रूप से दर्शाता है।

गांव के लोग, शिक्षित लोग, बढ़िमान लोग

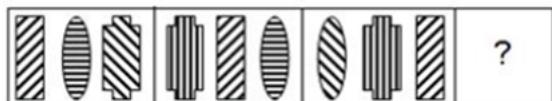


29. उस विकल्प आकृति की पहचान करें जो निम्नलिखित आकृति में अंतर्निहित है (रोटेशन की अनुमति नहीं है)।





30. उस विकल्प आकृति का चयन करें जो निम्नलिखित आकृति शरूंखला में प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगी।



31. जिस प्रकार 'युवा' का संबंध 'आयु' से है उसी प्रकार 'लघु' का संबंध '\_\_\_\_\_ ' से है।

- A. वर्षा  
B. अवधि  
C. छोटा  
D. दरेन

32. एक निश्चित कूट भाषा में, 12345 को 182764125 के रूप में कूटबद्ध किया जाता है। तो उसी कूट भाषा में 65428 को किस प्रकार कूटबद्ध किया जाएगा?

- A. 21512463511  
B. 149016025  
C. 216125747512  
D. 216125648512

33. यदि एक कूटबद्ध प्रणाली में HOUSE को 340 और FETUS को 516 के रूप में कूटबद्ध किया जाता है, तो उसी कूटबद्ध प्रणाली में CONSENT को कैसे कूटबद्ध किया जाएगा?

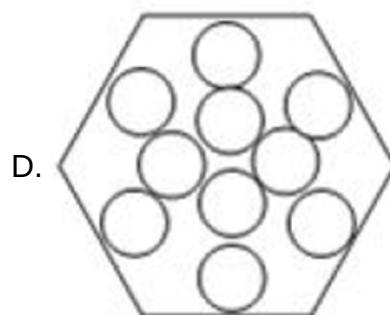
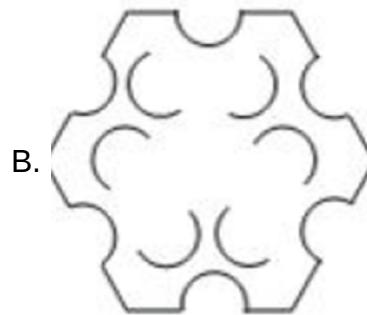
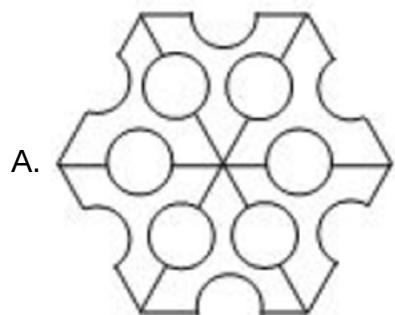
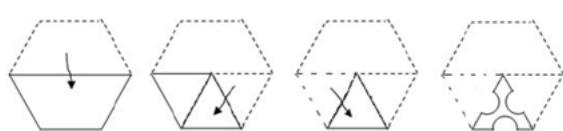
A. 630

B. 542

C. 455

D. 360

34. निम्नलिखित आकृतियों में दर्शाए अनुसार एक कागज को मोड़ा और काटा जाता है। कागज खोले जाने पर कैसा दिखाई देगा?



35. पांच व्यक्ति अर्थात् V, W, X, Y और Z केंद्र की ओर मुख करके एक गोल मेज पर बैठे हैं। V, W की दाईं ओर से दूसरे स्थान पर बैठा है, जो X की दाईं ओर से दूसरे स्थान पर है। यदि Y, X के आसन्न बैठा है, तो V की ठीक बाईं ओर कौन बैठा है?

A. Z

B. Y

C. W

D. X

36. निम्नलिखित संख्या श्रृंखला में कौन सी संख्या प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगी?

2, 12, 30, 56, 90, 132, ?

A. 180

B. 184

C. 186

D. 182

37. दिए गए संयोजन की सही दर्पण छवि का चयन करें जब दर्पण को इसकी दाईं ओर स्थापित किया जाता है।

Ù&Á?FS

- A. SF?Á&Ù  
C. 2F?Á&Ù

- B. 2F?Á&Ù  
D. SF?Á&Ù

38. कौन सा अक्षर समूह निम्नलिखित अक्षर समूह शरूखला में प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगा?

GJM, QTW, ADG, ?

- A. KOR  
C. KNQ
- B. JNR  
D. JMP

39. दो कथन दिए गए हैं, जिसके बाद दो निष्कर्ष । और ॥ दिए गए हैं । कथनों को सत्य मानते हुए, भले ही वे सामान्यतः ज्ञात तथ्यों से भिन्न प्रतीत होते हों, निर्णय लें कि कौन सा/से निष्कर्ष दिए गए कथनों का तार्किक रूप से अनुसरण करता है/हैं ।

कथन:

सभी ईंगल, काइट हैं ।

सभी काइट, स्पैरो हैं ।

निष्कर्ष:

I. सभी स्पैरो, ईंगल हैं ।

II. सभी ईंगल, स्पैरो हैं ।

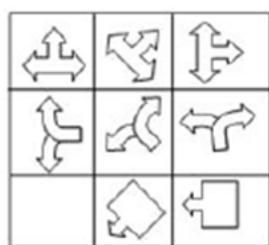
A. दोनों निष्कर्ष । और ॥ अनुसरण करते हैं ।

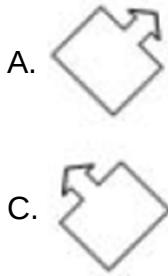
C. केवल निष्कर्ष । अनुसरण करता है ।

B. न तो निष्कर्ष । न ही ॥ अनुसरण करता है ।

D. केवल निष्कर्ष ॥ अनुसरण करता है ।

40. उस विकल्प आकृति की पहचान करें जिसे रिक्त स्थान में रखे जाने पर दी गई प्रश्न आकृति में पैटर्न पूरा होगा ।





41. उस विकल्प का चयन करें जो तीसरे अक्षर समूह से उसी प्रकार संबंधित है जिस प्रकार दूसरा अक्षर समूह पहले अक्षर समूह से संबंधित है।

ORGANZA : LJTAMBZ :: TEMPLATE :?

- |                           |                            |
|---------------------------|----------------------------|
| A. FFNQMZH<br>C. GWNLOAGW | B. GFMQLZGV<br>D. QBJMIXQB |
|---------------------------|----------------------------|

42. उस विकल्प शब्द का चयन करें जो तीसरे शब्द से उसी प्रकार संबंधित है जिस प्रकार दूसरा शब्द पहले शब्द से संबंधित है।

कोहिमा : नागालैंड :: शिलांग : ?



43. दिए गए पैटर्न का ध्यानपूर्वक अध्ययन करें और उस संख्या का चयन करें जो उसमें प्रश्नवाचक चिनह (?) को प्रतिस्थापित कर सकती है।

9779

7871

69?



44. एक निश्चित कूट भाषा में, यदि HARIDWAR को FCPKBYYT के रूप में लिखा जाता है, तो उसी कूट भाषा में BIKANER को किस प्रकार लिखा जाएगा?



45. यदि एक कूटबद्ध परणाली में, ORATORY को 116 और RAVENOUS को 119 के रूप में कूटबद्ध किया जाता है, तो उसी कूटबद्ध परणाली में IRIDOLOGY को किस प्रकार कृटबद्ध किया जाएगा?



49. आठ विद्यार्थी दो बैंचों पर बैठे थे, L, M, N, O सामने वाली बैंच पर और P, Q, R, S अगले बैंच पर बैठे थे, लेकिन समान क्रम में नहीं थे। Q, M, जो एकदम दाएँ बैठा है, के ठीक पीछे बैठा था। O एवं P तथा L एवं S विकर्णत क्रॉस स्थिति में एक दूसरे के आसन्न बैठे थे, S सबसे बाईं ओर था। N की बैठने की स्थिति क्या थी?
- A. R के विकर्णत  
B. R के ठीक सामने  
C. O की बाईं ओर  
D. L की बाईं ओर
50. एक निश्चित कूट भाषा में, यदि FINALIZE को JKRCPKDG के रूप में लिखा जाता है, तो उसी कूट भाषा में INSIGNIA को किस प्रकार लिखा जाएगा?
- A. MRWMKRMG  
B. MPTMIPMG  
C. KRWKKRKC  
D. GRWGKRGY
51. माना  $x \times 70000$  और  $75000$  के बीच सबसे छोटी संख्या है जिसे 225, 250 और 275 से विभाजित करने पर प्रत्येक स्थिति में 61 शेष बचता है।  $x$  के अंकों का योग है:
- A. 12  
B. 29  
C. 16  
D. 21
52. एक पंखे को 2,604 रुपये में बेचने पर 7% की हानि होती है। यदि इसे 3,094 रुपये में बेचा जाता है, तो लाभ प्रतिशत है:
- A. 10%  
B. 12%  
C. 9.5%  
D. 10.5%
53. दिए गए आँकड़ों के परास (रेंज) और माध्य का माध्य क्या है?
- 11, 16, 14, 7, 11, 23, 10, 30, 20, 33, 19, 12, 17, 14
- A. 20.5  
B. 25.5  
C. 24  
D. 19
54. एक व्यक्ति एक निश्चित दूरी  $4\frac{1}{6}$  मीटर/सेकंड की गति से तय करता है और 12 किमी/घंटा की गति से प्रारंभिक बिंदु पर वापस आ जाता है। उसकी औसत गति (किमी/घंटा में) ज्ञात कीजिए?
- A.  $12\frac{1}{2}$   
B.  $13\frac{1}{3}$   
C.  $13\frac{1}{2}$   
D.  $10\frac{1}{3}$
55.  $\frac{3}{7} + \frac{1}{14} \times 2\frac{4}{5} - \left(\frac{1}{4} \div \frac{2}{7}\right) \text{ of } 2\frac{1}{3} \times \left(5\frac{1}{5} \div 3\frac{1}{2} \times \frac{5}{13}\right)$  का मान ज्ञात कीजिए?
- A.  $\frac{22}{35}$   
B.  $\frac{3}{14}$   
C.  $\frac{14}{21}$   
D.  $\frac{29}{70}$
56. A और B का अनुपात 2:3 है, और B, A से 8 अधिक है। यदि A और B में से प्रत्येक में एक निश्चित संख्या k जोड़ दी जाए, तो अनुपात 7:9 प्राप्त होता है। k का मान ज्ञात कीजिए?

A. 10

C. 12

B. 8

D. 16

57. बर्तन A और B के विलयन में अम्ल और पानी का अनुपात क्रमशः 4:5 और 5:1 है। A और B से क्रमशः 5 लीटर और 4 लीटर विलयन मिलाकर एक नया घोल प्राप्त किया जाता है। नए घोल में अम्ल और पानी का अनुपात क्या है?

A. 9 : 4

B. 50 : 31

C. 25 : 16

D. 15 : 8

58. एक दुकानदार एक वस्तु पर उसके क्रय मूल्य से 24% अधिक मूल्य अंकित करता है और अंकित मूल्य पर 15% की छूट देता है। यदि वह वस्तु को बेचकर 27 रुपये का लाभ कमाता है, तो वस्तु का विक्रय मूल्य है:

A. 508 रु.

B. 522 रु.

C. 517 रु.

D. 527 रु.

59.  $\frac{\frac{3\frac{1}{4}-\frac{4}{5}}{4\frac{1}{3}\div\frac{1}{5}} \text{ of } \frac{5}{6}}{\left(2\frac{2}{3} \text{ of } 1\frac{1}{2}\right)}$  का मान ज्ञात कीजिए?

A.  $13\frac{1}{2}$ B.  $11\frac{1}{2}$ C.  $9\frac{1}{2}$ D.  $12\frac{1}{2}$ 

60. 3,780 रुपये की राशि को A, B और C के बीच इस तरह विभाजित किया जाता है कि यदि उनके हिस्सों में क्रमशः 130 रुपये, 150 रुपये और 200 रुपये की कमी की जाती है, तो उनका अनुपात 5:2:4 हो जाता है। C का मूल हिस्सा कितना है?

A. 1,350 रु.

B. 1,330 रु.

C. 1,400 रु.

D. 1,430 रु.

61. दो अंकों की संख्या  $49$ ,  $6x$ ,  $x4$  और  $70$  का औसत 65 है।  $(x + 8)$  और  $(x + 12)$  का औसत क्या है?

A. 16

B. 17

C. 19

D. 18

62. प्रति वर्ष एक निश्चित दर प्रतिशत पर 5,760 रुपये की राशि 4 वर्षों में 7,200 रुपये और 12 वर्षों में  $x$  रुपये हो जाती है, जब दोनों मामलों में ब्याज वार्षिक रूप से संयोजित होता है।  $x$  का मान क्या है?

A. 11500

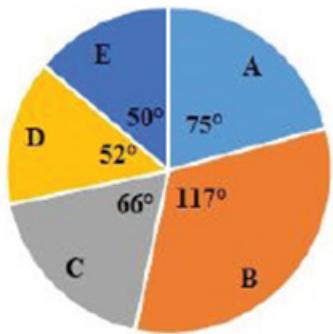
B. 11250

C. 12500

D. 12250

63. **निर्देश:** दिए गए पाई चार्ट का अध्ययन करें और नीचे दिए गए प्रश्न का उत्तर दें।

2019 में एक सोसायटी द्वारा प्रबंधित स्कूल A, B, C, D और E में पढ़ने वाले छात्रों का विवरण।



Total number of Students in five schools = 5400

स्कूल B में छात्रों की संख्या और स्कूल D और E में छात्रों की कुल संख्या के बीच का अंतर P है। P का मान किसके बीच है:

- A. 210 और 220
- B. 220 और 230
- C. 200 और 210
- D. 230 और 240

64. स्कूल A, B और C में छात्रों की औसत संख्या, स्कूल E में छात्रों की संख्या से कितने प्रतिशत अधिक है?

- A. 65%
- B. 60%
- C. 72%
- D. 70%

65. स्कूल B में लड़कों और लड़कियों की संख्या का अनुपात 6:7 है और स्कूल D में 40% छात्र लड़के हैं। स्कूल B और D में लड़कियों की कुल संख्या है:

- A. 1503
- B. 1410
- C. 1508
- D. 1413

66. एक निश्चित राशि को  $r\%$  प्रति वर्ष की दर से 3 वर्ष के लिए साधारण ब्याज पर निवेश करने पर प्राप्त राशि समान राशि पर 13 वर्षों के लिए समान दर पर साधारण ब्याज के बराबर होती है।  $r$  का मान है:

- A. 8
- B. 10
- C. 16
- D. 12

67. 12 सेमी किनारे का एक ठोस धातु घन एक बेलनाकार बर्तन में पानी में पूरी तरह से डूबा हुआ है जिसकी त्रिज्या 20 सेमी और ऊँचाई 32 सेमी है, और बर्तन में पानी 15 सेमी की ऊँचाई तक है। बर्तन में पानी जिस ऊँचाई से ऊपर उठेगा (सेमी में) वह है (एक दशमलव स्थान तक सही):

- A. 0.9
- B. 1.4
- C. 1.2
- D. 1.1

68. यदि  $180$  का  $x\%$ ,  $(x + 350)$  से  $25\%$  कम है, तो  $(x + 50)$  का  $18\%$ ,  $x$  के  $12\%$  से कितना प्रतिशत अधिक है?

- A. 60
- B. 72
- C. 75
- D. 80



77. अक्षमता क्या है?
- A. सुनने की क्षमता का ह्रास
  - B. बोलने की क्षमता का ह्रास
  - C. लिखने की क्षमता का ह्रास
  - D. समझ की क्षमता का ह्रास
78. निम्नलिखित में से किस स्मारक को 'दक्कन का ताज' भी कहा जाता है?
- A. कुतुब मीनार
  - B. बीबी का मकबरा
  - C. चांद मीनार
  - D. महाबत मकबरा
79. पक्षीविज्ञान किससे संबंधित है?
- A. मछलियों के अध्ययन
  - B. सरीसृपों और उभयचरों के अध्ययन
  - C. कीटों के अध्ययन
  - D. पक्षियों के अध्ययन
80. निम्नलिखित में से किसने 1885 में हैजा का टीका विकसित किया था?
- A. एडवर्ड जेनर
  - B. जैमी फेरन
  - C. जोनास साल्क
  - D. लियोन कैलमेट
81. निम्नलिखित में से किस राज्य में सबसे अधिक कोयला भंडार है?
- A. छत्तीसगढ़
  - B. उड़ीसा
  - C. झारखण्ड
  - D. पश्चिम बंगाल
82. यूरोपियन चैपियंस कप या हेनेकेन कप किस खेल से संबंधित है?
- A. रग्बी
  - B. क्रिकेट
  - C. फुटबॉल
  - D. हॉकी
83. भारत के संविधान में राज्यसभा के लिए सदस्यों के नामांकन की प्रक्रिया निम्नलिखित में से किस देश के संविधान से ली गई है?
- A. रूस
  - B. जर्मनी
  - C. आयरलैंड
  - D. अमेरिका
84. उन जलमार्गों की पहचान करें जो अंडमान और निकोबार द्वीप समूह को अलग करते हैं?
- A. पाक जलडमर्लमध्य
  - B. मलिकू कंडु
  - C. डंकन पैसेज
  - D. दस डिग्री चैनल
85. पैठानी साड़ी बुनाई उद्योग किस राज्य में है?
- A. राजस्थान
  - B. गुजरात
  - C. महाराष्ट्र
  - D. असम
86. निम्नलिखित में से किस शहर में 1864 में वेद समाज की स्थापना की गई थी?
- A. बॉम्बे (वर्तमान में मुंबई)
  - B. मद्रास (वर्तमान में चेन्नई)
  - C. कालीकट
  - D. कलकत्ता (वर्तमान में कोलकाता)
87. पहली शताब्दी ईसा पूर्व में गंगा नदी के बाढ़ के पानी को प्रवाहित करने के लिए जल संचयन प्रणाली किस स्थान पर थी?

A. दिल्ली

B. गोरखपुर

C. मिर्जापुर

D. शरूंगवेरापुरा

88. भारत के संविधान का अनुच्छेद 360 क्या प्रदान करता है?

A. जीवन का अधिकार

B. वित्तीय आपातकाल

C. संपत्ति का अधिकार

D. मौलिक कर्तव्य

89. 'हर्षचरित' (द डीड्स ऑफ हर्ष), जो भारतीय सम्राट हर्ष की जीवनी है, \_\_\_\_\_ द्वारा लिखी गई थी।

A. बाणभट्ट

B. स्वामी शिवानंद

C. वाल्मीकि

D. रवींद्रनाथ टैगोर

90. दशहरा उत्सव के दौरान किया जाने वाला 'वीरगासे' नृत्य \_\_\_\_\_ राज्य के लोक नृत्यों में एक विशेष स्थान रखता है।

A. कर्नाटक

B. असम

C. उड़ीसा

D. सिक्किम

91. कोणार्क का सूर्य मंदिर किस राजा के शासन काल में बनवाया गया था?

A. अनंत पद्मनाभन

B. समुद्रगुप्त

C. नरसिंहदेव 1

D. अनंतवर्मन चोडगंग

92. अंजुम मौदगिल ने किस खेल के लिए 2019 का अर्जुन पुरस्कार जीता?

A. क्रिकेट

B. शूटिंग

C. भारोत्तोलन

D. मुक्केबाजी

93. अमेरिका के 40वें राष्ट्रपति रोनाल्ड रीगन ने 1981 में अपने देश के इतिहास में सबसे बड़ी कर कटौती पर हस्ताक्षर किए। यह नीति किस आर्थिक सिद्धांत पर केंद्रित थी?

A. लाफ़र वक्र

B. लोरेंज कर्व

C. कुजनेट वक्र

D. स्वीजी की किंकड मांग वक्र

94. निम्नलिखित में से कौन-सा भारत का पहला अंग्रेजी भाषा का समाचार पत्र था?

A. हिक्वीज बंगाल गजट

B. मराठा

C. द मद्रास कूरियर

D. बॉम्बे हेराल्ड

95. 17वीं लोकसभा की राज्यवार सूची के अनुसार लोकसभा में बिहार को कितनी सीटें आवंटित की गई हैं?

A. 60

B. 40

C. 78

D. 48

96. 'द गोल्डन थ्रेशोल्ड' पुस्तक के लेखक कौन थे?

A. डॉ राजेंद्र प्रसाद

B. जवाहरलाल नेहरू

C. सरोजिनी नायडू

D. जेडए भुट्टो

97. राजस्व प्राप्तियों और गैर-ऋण पूंजीगत प्राप्तियों (एनडीसीआर) और कुल व्यय के बीच के अंतर को \_\_\_\_\_ कहा जाता है।

A. राजस्व घाटा

C. प्रभावी राजस्व घाटा

B. राजकोषीय घाटा

D. प्राथमिक घाटा

98. दो महाकाव्य, 'रघुवंश' और 'कुमारसंभव' \_\_\_\_\_ की रचनाएँ हैं।

A. वाल्मीकि

C. शिवानंद

B. रामदास

D. कालिदास

99. निम्नलिखित में से कौन सा तत्व बेकिंग सोडा का घटक नहीं है?

A. हाइड्रोजन

C. सोडियम

B. कैल्शियम

D. ऑक्सीजन

100. निक्टालोपिया (Nyctalopia), जिसे आमतौर पर रत्तौंधी के रूप में जाना जाता है, किस पोषक तत्व की कमी के कारण होता है?

A. विटामिन C

C. पोटेशियम

B. मैग्नीशियम

D. विटामिन A

### Solutions

1. A

Sol. The idiom “**over the moon**” means extremely happy and excited.

Example: We were **over the moon** about our trip to Maldives.

Hence, **option A** is the correct answer.

2. B

Sol. Option B has incorrectly spelt word.

“Extravagant” is the correct spelling of the word “Extravagent”. It means spending a lot more money or using a lot more of something than one can afford or than is necessary.

The meaning of other words are:

Decorative: decorated in a way that makes it attractive; intended to look attractive or pretty.

Elaborate: very complicated and detailed.

Ornamental: used as decoration rather than for a practical purpose.

3. B

Sol. Option B has incorrectly spelt word.

“Absence” is the correct spelling of the word “Absense”. It means the fact of someone being away from a place where they are usually expected to be.

The meaning of other words are:

Persuasion: the act of persuading someone to do something.

Erroneous: not correct

Scenic: connected with scenery.

4. D

Sol. Irresponsible: not thinking enough about the effects of what they do.

Unreliable: that cannot be trusted or depended on.

Imprudent: not wise or sensible.

Impervious: not affected or influenced by something.

Hence, option D is the correct answer.

5. D

Sol. Let's understand the meaning of the given words:

Fluorescent= producing bright light by using some forms of radiation.

E.g.: This strap has a fluorescent coating that glows in the dark.

Elaborate = very complicated and detailed.

Flowery = covered with flowers or decorated with pictures.

Perfumed = to make the air in a place smell pleasant.

Glowing = to produce steady light that is not very bright.

E.g.: The lighted candles glowed in the darkness.

Hence, option D is the correct answer.

6. B

Sol. The idiom “Copycat” means someone who copies what someone else does because they have no ideas of their own.

Example: She is just a copycat who follows her sister's lead in everything.

Hence, option B is the correct answer.

7. A

Sol. The sentence is grammatically incorrect, and the error lies in option A. The error is related to Article.

\* “An” as a definite article is used before the countable nouns (having vowel sounds).

\* “A” as an indefinite article is used before the countable nouns (no vowel sounds).

For example:

He has an uncanny ability to predict what consumers will want.

The car was found abandoned in a nearby town.

\* In the given sentence, we have used article “a” before “auditorium” which has a vowel sound. This is wrong. Thus, article “an” should be used.

\* Note: Whenever adjective precedes the noun, article is put in accordance with the sound of adjective.

\* Hence, “in an auditorium” is the correct substitution.

Thus, the correct sentence will be:

Vijaya saw the play in an auditorium near her house.

Hence, option A is the correct answer.

8. B

Sol.

Dinghy: a small open boat that you sail or row.

Ferry: a boat or ship that carries people, vehicles and goods across a river or across a narrow part of the sea.

Freighter: a large ship or plane that carries goods.

Submarine: a ship that can travel underwater.

Hence, option B is the correct answer.

9. A

Sol. Let's understand the meaning of the given words:

Flimsy= thin and easily torn OR difficult to believe

E.g.: The flimsy structure of car could not withstand even mild impacts.

Strong = having a lot of physical power

E.g.: She is strong enough to lift a car.

Weak = not physically strong.

Tiny = very small in size or amount.

Clumsy = moving or doing things in a way that is not smooth or steady or careful.

Hence, option A is the correct answer.

10. C

Sol. The underlined part of the sentence is grammatically incorrect.

\* The underlined part needs correction in the adverb and the verb.

\* "Certainly" as an adverb is used to show "without doubt or definitely"

For example:

We certainly hope we can do this again.

\* "Certain" as an adjective is used to show "strongly believing something"

For example:

She wasn't certain that he had seen her.

\* In the underlined sentence, we need adverb for the verb "go" but we have used an adjective "certain". Thus, adverb "certainly" should be used in place of adjective "certain".

\* Also, the verb "going" should be used because verb is set in the sense of continuous activity and we have used the auxiliary "am" which can either take V-ing or an adjective.

\* Hence, "certainly going" is the correct substitution.

Thus, the correct sentence will be:

I'm certainly going to start studying from today.

Hence, option C is the correct answer.

11. A

Sol. Let us understand the meaning of the given words:-

- \* Conversation = an informal talk involving a small group of people or only two; the activity of talking in this way.
- \* Confidence = the feeling that one can trust, believe in and be sure about the abilities or good qualities.
- \* Conversion = the act or process of changing something from one form, use or system to another.
- \* Conviction = the act of finding someone guilty of a crime in court.

Now let's find out the correct fit for the blank:

- \* "Confidence" is used in context of "having belief in something" Thus, option B is incorrect.
- \* "Conversion" is used in context of "changing forms of something". Thus, option C is incorrect.
- \* "Conviction" is used in context of "find someone guilty". Thus, option D is incorrect.
- \* "Conversation" is used in context of "talking". Here in the given sentence, it refers to the discussion that happened between the two people.

Thus, "Conversation" becomes the correct word to fill in the blank.

Thus, the correct sentence will be: They looked at each other for a moment without speaking and then fell into a conversation.

12. D

Sol. The sentence is grammatically incorrect, and the error lies in option D. The error is related to Preposition.

- \* "With" as a preposition means having or carrying something.
- \* "On" as a preposition means in or into a position covering, touching or forming part of a surface.

For example:

We need your support to enable us to continue with our work.

There is a mark on your shirt.

- \* In the given sentence, we need the sense of carrying forward the idea of “building a modern school”.
- \* The phrase “continue with something” means to maintain the action that one has been doing.
- \* Thus, preposition “with” should be used in place of the preposition “on”.
- \* Hence, “to continue with” is the correct substitution.

Thus, the correct sentence will be:

Obi wanted to continue with his idea of building a modern school.

13. A

Sol. Let's understand the meaning of the given words:

Graceful= move in an attractive way that shows control

E.g.: She gave a graceful bow to the audience.

Elegant = attractive and showing a good sense of style.

E.g.: He is tall and elegant.

Dangerous = likely to injure or harm someone.

Pleasant = fun, attractive, or giving pleasure.

Friendly = behaving in a kind and pleasant way because you like someone or want to help them.

Hence, option A is the correct answer.

14. A

Sol. The underlined part of the sentence is grammatically incorrect.

\* The underlined part needs correction in conjunction.

\* “As” as a conjunction is used to show “while something else is happening”

For example:

As he grew older he gained in confidence.

\* “That” as a conjunction is used to show after some verbs, adjectives and nouns to introduce a new part of the sentence.

For example:

The fact that he is older than me is not relevant.

\* In the underlined sentence, we need a conjunction after the verb “find” to introduce a new part of the sentence i.e. “the snake was harmless.....to tease it mercilessly”.

There is no sense of “while something else is happening”. Thus, conjunction “that” should be used in place of conjunction “as”.

\* Also, the sentence is set in the past tense, so the usage of the first form of the verb “find” is wrong.

Thus, second form of verb “found” should be used in place of “find”.

\* Hence, “found out that” is the correct substitution.

Thus, the correct sentence will be:

Very soon, the people find out that the snake was harmless and the boys began to tease it mercilessly.

Hence, option A is the correct answer.

15. D

Sol. Let us understand the meaning of the given words:-

- \* Previous = (adjective) means happening or existing before the event or object you are talking about
- \* Earlier = (comparative adjective) means near the beginning of a period of time, an event etc.
- \* Ahead = (adverb) further forward in space or time; in front.
- \* Before = (preposition) earlier than someone/something.

Now let's find out the correct fit for the blank:

- \* “Previous” means happening before the event. Thus, option A is incorrect.
- \* “Earlier” means near the beginning of a period of time. Thus, option B is incorrect.
- \* “Ahead” means further forward in space or time. Thus, option C is incorrect.

\* "Before" as a preposition is used to show earlier than something. Here in the given sentence, it is used to show that the mobile phones should be turned off prior to entering the hall.

Thus, "Before" becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

Before entering the hall, please turn off your mobile phones.

16. B

Sol. Let's understand the meaning of the given words:

Defence= the act of protecting someone/something from attack, criticism etc.

E.g.: We have to say in her defence that she knew nothing about the accident.

Protection = the act of protecting someone/something

Offence = an illegal act OR feeling of being upset or angry at something that someone has said or done.

E.g.: This article may cause offence to some people.

Security = the activities involved in protecting a country, building or person against attack, danger etc.

Guard = person who protects a place or people.

Hence, option B is the correct answer.

17. A

Sol. The sentence is grammatically incorrect, and the error lies in option A. The error is related to Preposition.

\* “Pounce on/upon someone/something” means to move suddenly forward in order to attack or catch someone/something.

For example:

The muggers pounced on him as he got out of the car.

\* In the given sentence, we need the sense of “sudden movement” and for that appropriate preposition is “on” or “upon”. Thus, preposition “on” should be used in place of preposition “up”.

\* Hence, “on/upon the rat” is the correct substitution.

Thus, the correct sentence will be:

Slowly the dog, Spot, went towards it and pounced on the rat.

OR

Slowly the dog, Spot, went towards it and pounced upon the rat.

Hence, option A is the correct answer.

18. A

Sol. Let us understand the meaning of the given words:-

- \* Between = (preposition) is used to show in or into the space separating two or more points, objects, people etc.
- \* Across = (preposition) is used to show from one side to the other side of something.
- \* Around = (preposition) is used to show surrounding someone/something; on each side of something.
- \* Within = (preposition) is used to show before particular period of time has passed.

Now let's find out the correct fit for the blank:

- \* "Across" as a preposition is used to show from one side to another. Thus, option B is incorrect.
- \* "Around" as a preposition is used to show surrounding something. Thus, option C is incorrect.
- \* "Within" as a preposition is used to show before particular period of time. Thus, option D is incorrect.
- \* "Between" as a preposition is used to show in or into the space separating two things. Here in the given sentence, it is used to show space separating two towns where a mountain lies.

Thus, "Between" becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

Half-way between the two towns there was a mountain which had to be crossed.

19. B

Sol. The underlined part of the sentence is grammatically incorrect.

- \* The underlined part needs correction in verb.
- \* The first part of the sentence talks about a basket which had a dozen eggs in it (past).

- \* The use of the conjunction “but” shows that the situation has changed. “Now” tells us that he is talking about the current situation at hand. Thus, we will use the simple present tense in the underlined part.
- \* For the plural “six”, we will use “are” after “there”.
- \* Hence, “there are” is the correct substitution.

Thus, the correct sentence will be:

There were a dozen eggs in the basket, but now there are only six.

Hence, option B is the correct answer.

20. C

Sol. Let us understand the meaning of the given words:-

- \* Withdraws = (singular verb) to take money out of a bank account.
- \* Withdraw = second form of verb “withdraw”.
- \* Withdraw = plural form of verb “withdraws”.
- \* Withdrawn = third form of verb “withdraw”.

Now let's find out the correct fit for the blank:

- \* “Withdraws” is a singular verb but we need verb (first form) without s/es after the modal verb “can”. Thus, option A is incorrect.
- \* “Withdraw” is a second form of verb but we need verb (first form) without s/es after the modal verb “can”. Thus, option B is incorrect.

\* “Withdrawn” is a third form of verb “withdraw” but we need verb (first form) without s/es after the modal verb “can”. Thus, option D is incorrect.

\* "Withdraw" is a first form of verb without s/es. We need a verb (first form) without s/es after the modal verb “can”. Thus, it fits in the blank.

Thus, "Withdraw" becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

With your new credit card, you can withdraw up to Rs. 20,000 in a day.

21. C

Sol. The given passage is about “Zhu’s desire and Chinese tradition”.

“Will” is a modal verb that shows the possibilities in future. Thus, option A is wrong.

“Be” is the first form of verb “be”. Thus, option B is wrong.

“Are” is a plural helping verb and it is used in present tense. Thus, option D is wrong.

“Were” is a plural helping verb and it is used in past tense. Here it is used for plural subject “girls” and also it matches with the tense of the paragraph i.e. Past tense. The usage of time word “Long ago” shows that the paragraph is talking about something that happened in the past.

Hence, option C is the correct answer.

22. D

Sol. The given passage is about “Zhu’s desire and Chinese tradition”.

“Make” means to create something by combining materials or putting parts together. Thus, option A is wrong.

“Teach” means to give lessons to students in college, schools etc. Thus, option B is wrong.

“Produce” means to make things to be sold, especially in large quantities. Thus, option C is wrong.

“Do” as a verb means to work at or perform an activity or a task. In the given sentence, it is used to mention the task of doing “household work” by the girls.

Hence, option D is the correct answer.

23. D

Sol.

The given passage is about “Zhu’s desire and Chinese tradition”.

“Going” is the continuous form of verb “go”. Thus, option A is wrong.

“Goes” is the first form of verb “go” and it is usually used in present tense. Thus, option B is wrong.

“Go” is the first form of verb “go” without s/es and it is usually used in present tense. Thus, option C is wrong.

“Went” is the second form of verb “go” and it is used in past tense. Here in the given sentence, it shows the movement of boys to school. Also, the usage of time word “Long ago” shows that the paragraph is talking about something that happened in the past.

Hence, option D is the correct answer.

24. C

Sol. The given passage is about “Zhu’s desire and Chinese tradition”.

“For” as a preposition is used to show who is intended to have or use something or where something is intended to be put. Thus, option A is wrong.

“At” as a preposition is used to show where something/someone is or where something happens. Thus, option B is wrong.

“In as a preposition is used to show at a point within an area or a space. Thus, option D is wrong.

“To” as a preposition is used to show someone’s feeling about something. Here in the given sentence, it is used to show Zhu feeling i.e. “desire” to study.

Hence, option C is the correct answer.

25. B

Sol. The given passage is about “Zhu’s desire and Chinese tradition”.

“Treated” means to behave in a particular way towards someone/something. Thus, option A is wrong.

“Trained” means to teach a person or an animal the skills of a particular job or activity. Thus, option C is wrong.

“Prepared” means to make something/someone ready to be used or to do something. Thus, option D is wrong.

“Pampered” means to take care of someone very well and make them feel as comfortable as possible. In the given sentence, it is used to mention that Zhu was taken care of very well by her family members and she could have easily gone to school too.

Hence, option B is the correct answer.

26. D

Sol. इस प्रकार के प्रश्नों को हिट एंड ट्रायल विधि द्वारा हल किया जाता है

अतः, 6 और 2 का चयन करें

$$72 + 108 \div 9 - 11 \times 6 = 18$$

अब BODMAS नियम को लागू करें

$$72+12-11 \times 6$$

$$72+12-66$$

$$84-66$$

=18

इसलिए, विकल्प D सही उत्तर है।

27. B

Sol.  $38 A 56 B 8 C 15 D (36 E 28) = 151$

इस प्रकार के प्रश्नों को हिट एंड ट्रायल विधि द्वारा हल किया जाता है

$$38-56 \div 8 + 15 \times (36-28) = 151$$

BODMAS नियम को लागू करें

$$38-7+15 \times 8 = 151$$

$$38-7+120 = 151$$

$$31+120 = 151$$

$$\text{अतः, } 151 = 151$$

इसलिए, विकल्प B सही उत्तर है।

28. B

Sol.

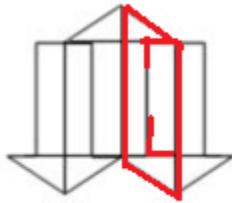


यह गांव, बुद्धिमान और शिक्षित लोगों के बीच संबंधों का सबसे अच्छा चित्रमय प्रतिनिधित्व है।

इसलिए, विकल्प B सही उत्तर है।

29. B

Sol. अंतर्निहित आकृति लाल रंग के प्रतिनिधित्व द्वारा दर्शाई गई है:



इसलिए, विकल्प B सही उत्तर है।

30. C

Sol. अनुसरण किया गया पैटर्न यह है कि आकृतियां एक चक्रीय गति का अनुसरण करती हैं।

साथ ही, जब कोई आकृति पहली स्थिति में आती है, तो आंतरिक रेखाएँ  $45^\circ$  दक्षिणावर्त गतिमान होती हैं।



इसलिए, विकल्प C सही उत्तर है।

31. B

Sol. युवा और वृद्ध आयु मापने के पैरामीटर हैं, इसी तरह लघु का इस्तेमाल अवधि मापने के लिए किया जाता है।

इसलिए, विकल्प B सही उत्तर है।

32. D

12345	$1^3 \ 2^3 \ 3^3 \ 4^3 \ 5^3$	1 8 27 64 125
65428	$6^3 \ 5^3 \ 4^3 \ 2^3 \ 8^3$	216 125 64 8 512

इसलिए, विकल्प D सही उत्तर है।

33. A

Sol. यहां अनुसरण किया गया तर्क है = (अक्षर के स्थानीय मान का योग)\*(शब्द में अक्षर की संख्या)

$$\text{House} = (8+15+21+19+5) * (5) = (68) * (5) = 340$$

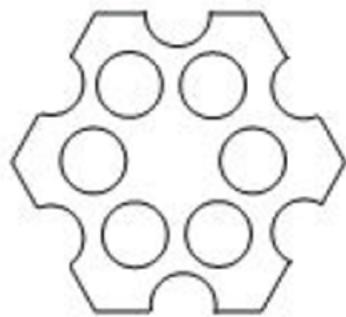
$$\text{FOETUS} = (6+15+5+20+21+19) * (6) = 86 * 6 = 516$$

$$\text{CONSENT} = (3+15+14+19+5+14+20) * (7) = 90 * 7 = 630$$

इसलिए, विकल्प A सही उत्तर है।

34. C

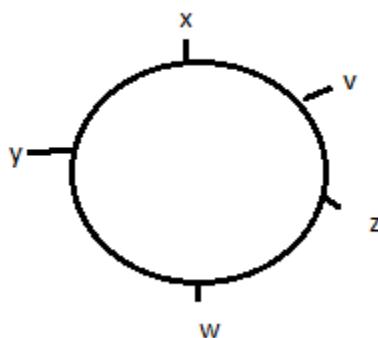
Sol. जब प्रश्न में दिए गए निर्देश के अनुसार कागज को मोड़ा और फिर काटा जाता है, तो निर्मित पैटर्न नीचे दिया गया है।



इसलिए, विकल्प C सही उत्तर है।

35. A

Sol. प्रश्न के अनुसार मेज की चारों ओर लोगों की व्यवस्था इस प्रकार है:



तो, Z, V की ठीक बाई ओर है।

इसलिए, विकल्प D सही उत्तर है।

36. D

Sol. यहां अनुसरण किए गए तर्क को नीचे समझाया गया है:

2 12 30 56 90 132 182

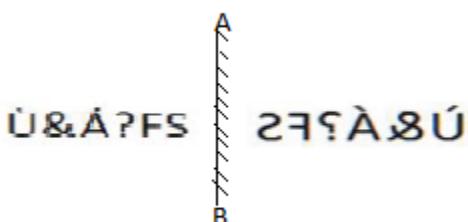
10 18 26 34 42 50

8 8 8 8 8

इसलिए, विकल्प C सही उत्तर है।

37. C

Sol. निर्मित दर्पण प्रतिबिम्ब नीचे दर्शाया गया है:



इसलिए, विकल्प C सही उत्तर है।

38. C

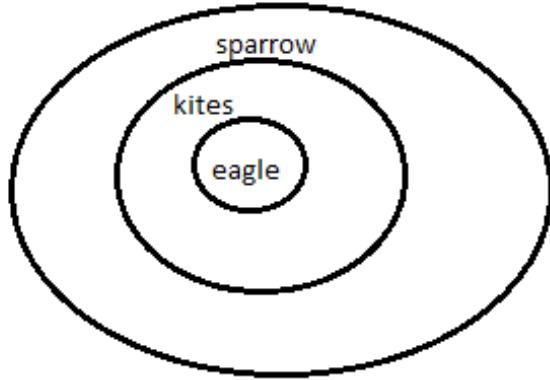
Sol. यहां तर्क यह है कि अक्षर के स्थानीय मान के बीच का अंतर 10 है, जो चित्र के माध्यम से नीचे दिखाया गया है:

G+10	Q	Q+10	A	A+10	K
J+10	T	T+10	D	D+10	N
M+10	W	W+10	G	G+10	Q

इसलिए, विकल्प C सही उत्तर है।

39. D

Sol. सचित्र प्रतिनिधित्व नीचे दर्शाया गया है:



### निष्कर्षः

- I. सभी स्पैरो, ईंगल हैं- गलत है क्योंकि सभी ईंगल, काइट हैं तथा सभी काइट, स्पैरो हैं इसलिए स्पैरो, ईंगल से बड़ी इकाई है।
  - II. सभी ईंगल, स्पैरो हैं- सही है, क्योंकि सभी ईंगल, काइट हैं और सभी काइट, स्पैरो हैं इसलिए स्पैरो, ईंगल से बड़ी इकाई है।
- इसलिए, विकल्प D सही उत्तर है।

40. D

Sol. पैटर्न को पूरा करने वाली आकृति नीचे दी गई है।

आकृति की गति  $45^\circ$  दक्षिणावर्त होती है।



इसलिए, विकल्प C सही उत्तर है।

41. C

Sol. यहां तर्क यह है कि प्रत्येक अक्षर को या तो उसके उल्टे अक्षर से कूटबद्ध किया जाता है या उलटे अक्षर + 1 को वैकल्पिक रूप से -

$$O = L$$

$$R = I + 1 = J$$

$$G = T$$

A = Z + 1 = A

N = M

Z = A + 1 = B

A = Z

इसी तरह,

T = G

E = V + 1 = W

M = N

P = K + 1 = L

L = O

A = Z + 1 = A

T = G

E = V + 1 = W

इसलिए, विकल्प C सही उत्तर है।

42. B

Sol. कोहिमा, नागालैंड की राजधानी है इसी तरह, शिलांग, मेघालय की राजधानी है।

इसलिए, विकल्प B सही उत्तर है।

43. A

Sol. 9 7 79

7 8 71

6 9 ?

$$79 = (9 \times 7) + (9 + 7) = 63 + 16 = 79$$

$$71 = (7 \times 8) + (7 + 8) = 56 + 15 = 71$$

$$? = (6 \times 9) + (6 + 9) = 54 + 15 = 69$$

इसलिए, विकल्प A सही उत्तर है।

44. C

Sol. यहां अनुसरण किए गए तर्क को नीचे तालिका रूप के माध्यम से दर्शाया गया है:

H-2=F	B-2=Z
A+2=C	I+2=K
R-2=P	K-2=I
I+2=K	A+2=C
D-2=B	N-2=L
W+2=Y	E+2=G
A-2=Y	R-2=P
R+2=T	

इसलिए, विकल्प C सही उत्तर है।

45. C

Sol. यहां अनुसरण किया गया तर्क है (सभी अक्षर +4 के स्थानीय मान का योग)

$$\text{ORATORY} = (15 + 18 + 1 + 20 + 15 + 18 + 25 + 4) = 116$$

$$\text{RAVENOUS} = (18 + 1 + 22 + 5 + 14 + 15 + 21 + 19 + 4) =$$

$$\text{IRIDIOLOGY} = (9 + 18 + 9 + 4 + 15 + 12 + 15 + 7 + 25 + 4) = 118$$

इसलिए, विकल्प C सही उत्तर है।

46. B

Sol. विशेष दिन पर प्रश्न के अनुसार व्याख्यान का प्रतिनिधित्व नीचे दिया गया है:

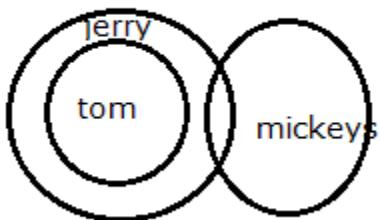
सामयिकी	सोमवार
छुट्टी	मंगलवार
गुणवत्ता सर्कल	बुधवार
बैंकिंग प्रणाली	गुरुवार
निर्णय लेना	शुक्रवार
कार्य प्रेरणा	शनिवार
व्यक्तित्व विकास	रविवार

तो, सोमवार को सामयिकी व्याख्यान का आयोजन किया जाएगा।

इसलिए, विकल्प B सही उत्तर है।

47. D

Sol.



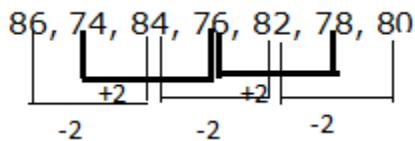
निष्कर्ष:

- I. कुछ टॉम, मिक्की हैं – गलत है क्योंकि टॉम और मिक्की के बीच कोई सीधा संबंध नहीं है।
- II. कुछ टॉम, मिक्की नहीं हैं – गलत है क्योंकि टॉम और मिक्की के बीच कोई सीधा संबंध नहीं है।
- III. कुछ जैरी, टॉम हैं - सही है क्योंकि सभी टॉम, जैरी हैं।

इसलिए, विकल्प D सही उत्तर है।

48. B

Sol. 86, 74, 84, 76, ?, 78, 80



इसलिए, विकल्प B सही उत्तर है।

49. B

Sol. प्रश्न के अनुसार बैठने की व्यवस्था का सचित्र प्रतिनिधित्व है:

O	L	N	M
S	P	R	Q

अतः, N, R के सामने बैठा है।

इसलिए, विकल्प B सही उत्तर है।

50. C

Sol. यहां दिए गए तर्क को तालिकाबद्ध निरूपण के माध्यम से समझाया गया है:

F + 4 = J	I + 2
I + 2 = K	N + 4
N + 4 = R	S
A + 2 = C	I
L + 4 = P	G
I + 2 = K	N
Z + 4 = D	I
E + 2 = G	A

इसलिए, विकल्प B सही उत्तर है।

51. C

Sol. वह संख्या जिसे 225, 250 और 275 से विभाजित करने पर प्रत्येक स्थिति में 61 शेष बचता है = (225, 250 तथा 275) का LCM + 61

$$= 24750 + 61$$

अभीष्ट, 70000 और 75000 के बीच की सबसे छोटी संख्या जो 225, 250 और 275 से विभाजित करने पर प्रत्येक स्थिति x में 61 शेष बचता है =  $24750 \times 3 + 61 = 74250 + 61 = 74311$

इसलिए, x के अंकों का योग =  $7 + 4 + 3 + 1 + 1 = 16$

अतः, विकल्प C सही है

52. D

Sol. हम जानते हैं कि:

$$\text{क्रय मूल्य} = \text{विक्रय मूल्य} \times \frac{100}{(100 - \text{हानि\%})}$$

$$= 2604 \times \frac{100}{(100 - 7)}$$

$$= 2604 \times \frac{100}{93}$$

$$= 2800 \text{ रु.}$$

$$\text{इसलिए, अभीष्ट लाभ जब इसे } 3094 \text{ रुपये में बेचा जाता है |} = \frac{(3094 - 2800)}{2800} \times 100 = \frac{294}{28} \times 100 = 10.5\%$$

अतः, विकल्प D सही है

53. A

Sol. आरोही क्रम – 7, 10, 11, 11, 12, 14, 14, 16, 17, 19, 20, 23, 30, 33

अवलोकनों की कुल संख्या = 14

हम जानते हैं कि:

$$\text{माध्य} = \frac{\text{7वाँ पद} + \text{8वाँ पद}}{2} = \frac{14+16}{2} = \frac{30}{2} = 15$$

$$\text{श्रेणी} = \text{उच्चतम मूल्य} - \text{निम्नतम मूल्य} = 33 - 7 = 26$$

$$\text{इसलिए, माध्यिका और परास (रेंज) का अभीष्ट माध्य} = \frac{15+26}{2} = \frac{41}{2} = 20.5$$

अतः, विकल्प A सही है।

54. B

Sol. दिया है:

$$\text{गति} s_1 = 4 \frac{1}{6} \text{ मी/से.} = \frac{25}{6} \times \frac{18}{5} = 15 \text{ किमी/घंटा}$$

$$S_2 = 12 \text{ किमी/घंटा}$$

हम जानते हैं कि:

$$\text{औसत गति} = \frac{2s_1s_2}{(s_1+s_2)}$$

$$= \frac{2 \times 15 \times 12}{(15+12)}$$

$$= \frac{2 \times 15 \times 12}{27}$$

$$= \frac{40}{3}$$

$$= 13\frac{1}{3} \text{ किमी/घंटा}$$

इसलिए, उसकी औसत गति  $13\frac{1}{3}$  किमी/घंटा

अतः, विकल्प B सही है

55. D

Sol.  $\frac{3}{7} + \frac{1}{14} \times 2\frac{4}{5} - \left(\frac{1}{4} \div \frac{2}{7}\right) \times \left(5\frac{1}{5} \div 3\frac{1}{2} \times \frac{5}{13}\right)$  का मान

BODMAS के नियम का प्रयोग करने पर –

$$= \frac{3}{7} + \frac{1}{14} \times \frac{14}{5} - \left(\frac{1}{4} \times \frac{7}{2} \times \frac{3}{7}\right) \times \left(\frac{26}{5} \times \frac{2}{7} \times \frac{5}{13}\right)$$

$$= \frac{3}{7} + \frac{1}{5} - \left(\frac{3}{8}\right) \times \left(\frac{4}{7}\right)$$

$$= \frac{3}{7} + \frac{1}{5} - \frac{3}{14}$$

$$= \frac{30+14-15}{70}$$

$$= \frac{29}{70}$$

अतः, विकल्प D सही है।

56. C

Sol. दिया है:

$$A : B = 2 : 3$$

$$\text{अब, } A \text{ का मान} = \frac{8}{(3-2)} \times 2 = \frac{8}{1} \times 2 = 16$$

$$B \text{ का मान} = \frac{8}{(3-2)} \times 3 = \frac{8}{1} \times 3 = 24$$

प्रश्नानुसार,

$$\Rightarrow \frac{16+k}{24+k} = \frac{7}{9}$$

$$\Rightarrow 144 + 9k = 168 + 7k$$

$$\Rightarrow 9k - 7k = 168 - 144$$

$$\Rightarrow 2k = 24$$

$$\Rightarrow k = 12$$

इसलिए, K का मान 12 है

अतः, विकल्प C सही है

57. B

$$\text{Sol. बर्तन A में अम्ल की मात्रा} = \frac{4}{(4+5)} \times 5 = \frac{20}{9}$$

$$\text{बर्तन B में अम्ल की मात्रा} = \frac{5}{(5+1)} \times 4 = \frac{20}{6} = \frac{10}{3}$$

$$\text{बर्तन A में पानी की मात्रा} = \frac{5}{(4+5)} \times 5 = \frac{25}{9}$$

$$\text{बर्तन B में पानी की मात्रा} = \frac{1}{(5+1)} \times 4 = \frac{4}{6} = \frac{2}{3}$$

$$\text{इसलिए, नए घोल में अम्ल और पानी का अभीष्ट अनुपात} = \left(\frac{20}{9} + \frac{10}{3}\right) : \left(\frac{25}{9} + \frac{2}{3}\right)$$

$$= \left(\frac{20+30}{9}\right) : \left(\frac{25+6}{9}\right)$$

$$= \frac{50}{9} : \frac{31}{9}$$

$$= 50 : 31$$

अतः, विकल्प B सही है।

58. D

Sol. माना वस्तु का क्रय मूल्य = x

$$\text{वस्तु का अंकित मूल्य} = (x) \times \frac{(100+24)}{100} = \frac{124x}{100} = \frac{31x}{25}$$

$$\text{वस्तु का विक्रय मूल्य} = \left(\frac{124x}{100}\right) \times \frac{(100-15)}{100} = \left(\frac{124x}{100}\right) \times \frac{85}{100} = \frac{527x}{500}$$

हम जानते हैं कि:

$$\text{लाभ} = \text{विक्रय मूल्य} - \text{क्रय मूल्य}$$

$$\Rightarrow 27 = \frac{527x}{500} - x$$

$$\Rightarrow 27 = \frac{527x - 500x}{500}$$

$$\Rightarrow 27 = \frac{27x}{500}$$

$$\Rightarrow x = 500 \text{ Rs.}$$

$$\text{इसलिए, वस्तु का विक्रय मूल्य} = \frac{527x}{500} = \frac{527 \times 500}{500} = 527 \text{ रु.}$$

अतः, विकल्प D सही है।

59. B

Sol.  $\frac{\frac{3\frac{1}{4}-\frac{4}{5}}{5} \text{ of } \frac{5}{6}}{\frac{1}{3} \div \frac{1}{5} - \left(\frac{3}{10} + 21\frac{1}{5}\right)} - \left(2\frac{2}{3} \text{ of } 1\frac{1}{2}\right)$  का मान

BODMAS के नियम का प्रयोग करने पर –

$$= \frac{\frac{13}{4} - \frac{4}{5} \times \frac{5}{6}}{\frac{13}{3} \times 5 - \left( \frac{3}{10} + \frac{106}{5} \right)} - \left( \frac{8}{3} \times \frac{3}{2} \right)$$

$$= \frac{\frac{13}{4} - \frac{2}{3}}{\frac{65}{3} - \left( \frac{3+212}{10} \right)} - 4$$

$$= \frac{\frac{(39-8)}{12}}{\left( \frac{65}{3} - \frac{215}{10} \right)} - 4$$

$$= \frac{\left( \frac{31}{12} \right)}{\left( \frac{65}{3} - \frac{43}{2} \right)} - 4$$

$$= \frac{\left( \frac{31}{12} \right)}{\left( \frac{130-129}{6} \right)} - 4 = \frac{31}{12} \times 6 - 4$$

$$= \frac{31}{2} - 4$$

$$= \frac{(31-8)}{2}$$

$$= \frac{23}{2}$$

$$= 11\frac{1}{2}$$

अतः, विकल्प B सही है

60. C

Sol. माना A का हिस्सा =  $5x + 130$

B का हिस्सा =  $2x + 150$

C का हिस्सा =  $4x + 200$

प्रश्नानुसार,

$$\Rightarrow 5x + 130 + 2x + 150 + 4x + 200 = 3780$$

$$\Rightarrow 11x + 480 = 3780$$

$$\Rightarrow 11x = 3780 - 480$$

$$\Rightarrow x = \frac{3300}{11}$$

$$\Rightarrow x = 300$$

इसलिए, C का मूल हिस्सा  $= 4x + 200 = 4 \times 300 + 200 = 1400$  रु.

अतः, विकल्प C सही है।

61. B

Sol. हम  $6x$  को  $(60 + x)$  और  $x4$  को  $(10x + 4)$  के रूप में लिख सकते हैं

हम जानते हैं कि:

$$\text{औसत} = \frac{\text{सभी मानों का योग}}{\text{सभी मानों की संख्या}}$$

$$\Rightarrow 65 = \frac{49+60+x+10x+4+70}{4}$$

$$\Rightarrow 260 = 183 + 11x$$

$$\Rightarrow 11x = 260 - 183$$

$$\Rightarrow 11x = 77$$

$$\Rightarrow x = 7$$

$$\text{इसलिए, अभीष्ट औसत} = \frac{(x+8)+(x+12)}{2} = \frac{(7+8)+(7+12)}{2} = \frac{34}{2} = 17$$

अतः, विकल्प B सही है।

62. B

Sol. हम जानते हैं कि:

$$\text{राशि} = p \left(1 + \frac{r}{100}\right)^t$$

$$\Rightarrow 7200 = 5760 \left(1 + \frac{r}{100}\right)^4$$

$$\Rightarrow \left(1 + \frac{r}{100}\right)^4 = \frac{7200}{5760}$$

$$\Rightarrow \left(1 + \frac{r}{100}\right)^4 = \frac{5}{4} \dots \text{समी } 1$$

तथा,

$$12 \text{ वर्ष बाद राशि } x = 5760 \times \left(1 + \frac{r}{100}\right)^{12}$$

$$x = 5760 \times \left(\left(1 + \frac{r}{100}\right)^4\right)^3 \dots \text{समी } 2$$

समीकरण 1 से  $\left(1 + \frac{r}{100}\right)^4$  का मान रखने पर

$$\Rightarrow x = 5760 \times \left(\frac{5}{4}\right)^3$$

$$\Rightarrow x = 5760 \times \frac{5}{4} \times \frac{5}{4} \times \frac{5}{4}$$

$$\Rightarrow x = 11250 \text{ रु.}$$

अतः x का मान 11250 रूपये है।

अतः विकल्प B सही है।

63. B

Sol. स्कूल B में छात्रों की संख्या =  $5400 \times \frac{117}{360} = 1755$

स्कूल D और E में छात्रों की कुल संख्या =  $5400 \times \frac{(50+52)}{360} = 5400 \times \frac{102}{360} = 1530$

स्कूल B में छात्रों की संख्या और स्कूल D और E में छात्रों की कुल संख्या के बीच का अंतर =  $1755 - 1530 = 225$

इसलिए, P का मान 220 और 230 के बीच है।

अतः विकल्प B सही है।

64. C

Sol. स्कूल A, B और C में छात्रों की कुल संख्या =  $\frac{(75+117+66)}{360} \times 5400 = \frac{258}{360} \times 5400 = 3870$

स्कूल A, B और C में छात्रों की औसत संख्या =  $\frac{3870}{3} = 1290$

स्कूल E में छात्रों की संख्या =  $5400 \times \frac{50}{360} = 750$

इसलिए, अभीष्ट प्रतिशत =  $\frac{(1290-750)}{750} \times 100 = \frac{540}{750} \times 100 = 72\%$

अतः, विकल्प C सही है।

65. D

Sol. स्कूल B में छात्रों की संख्या =  $\frac{5400 \times 117}{360} = 1755$

स्कूल B में लड़कियों की संख्या =  $\frac{1755}{(6+7)} \times 7 = \frac{1755}{13} \times 7 = 945$

स्कूल D में छात्रों की संख्या =  $\frac{5400}{360} \times 52 = 780$

स्कूल D में लड़कियों की संख्या =  $780 \times \frac{(100-40)}{100} = 780 \times \frac{60}{100} = 468$

इसलिए, स्कूल B और D में लड़कियों की कुल अभीष्ट संख्या =  $945 + 468 = 1413$

अतः, विकल्प D सही है।

66. B

Sol. माना राशि x रुपये है

हम जानते हैं कि:

$$\text{साधारण ब्याज} = \frac{P \times R \times T}{100}$$

प्रश्नानुसार,

$$\Rightarrow (x) + \frac{(x) \times r \times 3}{100} = \frac{(x) \times r \times 13}{100}$$

$$\Rightarrow x = \frac{13xr - 3xr}{100}$$

$$\Rightarrow x = \frac{10xr}{100}$$

$$\Rightarrow r = 10\%$$

इसलिए, r का मान 10% है

अतः, विकल्प B सही है

67. B

Sol. माना बर्तन में पानी जिस ऊंचाई से ऊपर उठेगा = h सेमी

हम जानते हैं कि घन का आयतन = (भुजा)<sup>3</sup>

बेलन का आयतन =  $\pi r^2 h$

प्रश्नानुसार,

$$\Rightarrow 12 \times 12 \times 12 = \frac{22}{7} \times 20 \times 20 \times h$$

$$\Rightarrow h = \frac{12 \times 12 \times 12 \times 7}{22 \times 20 \times 20}$$

$$\Rightarrow h = 1.37 \text{ सेमी}$$

अतः बर्तन में पानी जिस ऊंचाई से ऊपर उठेगा वह 1.4 सेमी है।

अतः विकल्प B सही है।

68. D

Sol. प्रश्नानुसार,

$$\Rightarrow 180 \times \frac{x}{100} = (x + 350) \times \frac{(100 - 25)}{100}$$

$$\Rightarrow 180 \times \frac{x}{100} = (x + 350) \times \frac{75}{100}$$

$$\Rightarrow \frac{9x}{5} = (x + 350) \times \frac{3}{4}$$

$$\Rightarrow \frac{9x}{5} - \frac{3x}{4} = 350 \times \frac{3}{4}$$

$$\Rightarrow \frac{36x - 15x}{20} = \frac{525}{2}$$

$$\Rightarrow \frac{21x}{20} = \frac{525}{2}$$

$$\Rightarrow x = \frac{525 \times 20}{2 \times 21}$$

$$\Rightarrow x = 250$$

$$\text{अब, } (x + 50) \text{ के } 18\% \text{ का मान} = (250 + 50) \times \frac{18}{100} = 300 \times \frac{18}{100} = 54$$

$$x \text{ का } 12\% \text{ का मान} = 250 \times \frac{12}{100} = 30$$

$$\text{इसलिए, अभीष्ट प्रतिशत} = \frac{(54 - 30)}{30} \times 100 = \frac{24}{30} \times 100 = 80\%$$

अतः, विकल्प D सही है

69. A

Sol. माना वृत्त की त्रिज्या r सेमी है।

हम जानते हैं कि:

$$\text{एक समकोण त्रिभुज का क्षेत्रफल} = \frac{1}{2} \times \text{आधार} \times \text{ऊँचाई}$$

प्रश्नानुसार,

$$\Rightarrow \pi r^2 = \left( \frac{1}{2} \times 20 \times 21 + \frac{1}{2} \times 60 \times 11 \right) \times \frac{77}{30}$$

$$\Rightarrow \frac{22}{7} r^2 = (210 + 330) \times \frac{77}{30}$$

$$\Rightarrow \frac{22}{7} r^2 = 540 \times \frac{77}{30}$$

$$\Rightarrow r^2 = \frac{540 \times 77 \times 7}{22 \times 30}$$

$$\Rightarrow r^2 = 441$$

$$\Rightarrow r = 21 \text{ सेमी}$$

इसलिए वृत्त की त्रिज्या 21 सेमी है।

अतः विकल्प A सही है।

70. A

Sol. सभी 18 संख्याओं का योग =  $18 \times 65 = 1170$

पहली 10 संख्याओं का औसत =  $10 \times 72 = 720$

अंतिम 9 संख्याओं का औसत =  $9 \times 58 = 522$

अब, 10वीं संख्या का मान =  $720 + 522 - 1170 = 72$

यदि 10वीं संख्या को हटा दिया जाए, तो शेष 17 संख्याओं का योग =  $1170 - 72 = 1098$

इसलिए, 17 संख्याओं का अभीष्ट औसत =  $\frac{1098}{17} = 64.6$

अतः, विकल्प A सही है

71. B

Sol. माना कुल कार्य = 8, 12,  $13\frac{1}{3}$  का LCM = 120 इकाई

A की क्षमता =  $\frac{120}{8} = 15$  इकाई/घंटा

B की क्षमता =  $\frac{120}{12} = 10$  इकाई/घंटा

सभी तीन पाइपों की क्षमता =  $\frac{120}{(\frac{40}{3})} = \frac{120 \times 3}{40} = 9$  इकाई/घंटा

निकास पाइप C की क्षमता =  $9 - 15 - 10 = -16$  इकाई/घंटा

इसलिए, C द्वारा पूरा टैंक खाली करने में लिया गया अभीष्ट समय =  $\frac{120}{16} = 7\frac{1}{2}$  घंटे

अतः, विकल्प B सही है

72. A

Sol.  $79 - [128 - \{75 - (72 \div 16 \times 4) + (18 \div 2 \text{ of } 6) \times 4\}]$  का मान

BODMAS के नियम का पालन करने पर-

$$= 79 - \left[ 128 - \left\{ 75 - \left( \frac{72}{16} \times 4 \right) + 18 \times \frac{1}{2} \times \frac{1}{6} \times 4 \right\} \right]$$

$$= 79 - [128 - \{75 - 18 + 6\}]$$

$$= 79 - [128 - 63]$$

$$= 79 - 65$$

$$= 14$$

अतः, विकल्प A सही है

73. D

Sol. यदि 84 व्यक्ति एक निश्चित कार्य को पूरा करने में 56 दिन लेते हैं। तब एक चौथाई कार्य पूरा होने में लगा समय =  $56 \times \frac{1}{4} = 14$  दिनों

$$\text{शेष कार्य} = 1 - \frac{1}{4} = \frac{3}{4}$$

$$\frac{1}{7} \text{ श्रमिकों ने कार्य छोड़ दिया, तब शेष श्रमिक} = 84 \times \left(1 - \frac{1}{7}\right) = 84 \times \frac{6}{7} = 72$$

हम जानते हैं कि:

$$W = MDH$$

प्रश्नानुसार,

$$\Rightarrow \frac{\left(\frac{1}{4}\right)}{\left(\frac{3}{4}\right)} = \frac{84 \times 14}{72 \times (x)}$$

$$\Rightarrow \frac{1 \times 4}{4 \times 3} = \frac{84 \times 14}{72 \times (x)}$$

$$\Rightarrow x = 49 \text{ दिन}$$

इसलिए, कार्य को पूरा करने में लगा अभीष्ट समय =  $49 + 14 = 63$  दिन

अतः, विकल्प D सही है

74. D

Sol. माना वस्तु का क्रय मूल्य P रु है

हम जानते हैं कि:

$$\text{विक्रय मूल्य} = \text{क्रय मूल्य} \times \frac{(100+\text{लाभ \%})}{100}$$

प्रश्नानुसार,

$$\Rightarrow P \times \frac{(100+x+20)}{100} - P \times \frac{(100+x)}{100} = 896 - 768$$

$$\Rightarrow \frac{P}{100} [(120 + x) - (100 + x)] = 128$$

$$\Rightarrow \frac{P}{100} \times 20 = 128$$

$$\Rightarrow P = 640 \text{ रु.}$$

अब,

$$\text{यदि वस्तु को } 768 \text{ रुपये में बेचा जाता है, तो लाभ प्रतिशत } x = \frac{(768-640)}{640} \times 100 = \frac{128}{640} \times 100 = 20\%$$

इसलिए, x का अभीष्ट मान = 20%

अतः, विकल्प D सही है

75. B

Sol. दिया है:

$$\text{दूरी} = 270 \text{ मी}$$

$$\text{समय} = 24 \text{ से.}$$

हम जानते हैं कि:

$$\text{गति} = \frac{\text{दूरी}}{\text{समय}}$$

$$= \frac{270}{24}$$

$$= \frac{45}{4} \text{ मी/से.}$$

$$\text{दूरी} = \text{गति} \times \text{समय}$$

$$= \frac{45}{4} \times 60$$

$$= 675$$

$$\text{इसलिए, सुरंग की लंबाई} = 675 - 270 = 405 \text{ मी}$$

अतः, विकल्प B सही है

76. C

Sol. • विश्व व्यापार संगठन 1995 में अस्तित्व में आया।

- यह एक अंतर-सरकारी संगठन है जो राष्ट्रों के बीच अंतर्राष्ट्रीय व्यापार को नियंत्रित और सुगम बनाता है।
- यह दुनिया का सबसे बड़ा अंतर्राष्ट्रीय आर्थिक संगठन है जिसमें 164 सदस्य देश वैशिक व्यापार और वैशिक जीडीपी के 98% से अधिक का प्रतिनिधित्व करते हैं।
- यह व्यापार समझौतों पर बातचीत के लिए एक रूपरेखा प्रदान करके भाग लेने वाले देशों के बीच वस्तुओं, सेवाओं और बौद्धिक संपदा में व्यापार की सुविधा प्रदान करता है।
- यह विश्व व्यापार के पर्यवेक्षण और उदारीकरण के लिए स्थापित एक अंतर्राष्ट्रीय संगठन है।

77. C

Sol. • अक्षमता लिखने की क्षमता का ह्रास है।

- इसे मोटे तौर पर केंद्रीय और परिधीय श्रेणियों में विभाजित किया जा सकता है।
- वाचाधात समझ की क्षमता की हानि है।
- मस्तिष्क के विशिष्ट क्षेत्रों को नुकसान होने के कारण यह भाषा को समझने या तैयार करने में असमर्थता है।
- स्नायिक बधिरता सुनने की क्षमता की हानि है।
- श्रवण हानि चार प्रकार की हैं:

a) संवेद तंत्रिकीय बधिरता

b) प्रवाहकीय बधिरता

c) मिश्रित बधिरता

d) तंत्रिका विकृति स्पेक्ट्रम विकार

78. B

Sol. • बीबी का मकबरा को 'दक्कन का ताज' भी कहा जाता है।

- यह महाराष्ट्र के औरंगाबाद में स्थित एक मकबरा है और इसे 1660 में मुगल सम्राट औरंगजेब ने बनवाया था।
- यह औरंगजेब द्वारा निर्मित दूसरी सबसे बड़ी संरचना है।
- कुतुब मीनार शहर के सबसे अधिक देखे जाने वाले पर्यटन स्थलों में से एक है और यह यूनेस्को की विश्व धरोहर स्थल है।
- चांद मीनार या चंद्रमा की मीनार भारत के दौलताबाद में एक मध्ययुगीन मीनार है।
- महाबत मकबरा गुजरात के जूनागढ़ में एक मकबरा है और यह महाबत खान द्वितीय को समर्पित है।

79. D

Sol. • पक्षीविज्ञान पक्षियों के अध्ययन से संबंधित है।

- यह प्राणीशास्त्र की एक शाखा है जो पद्धति संबंधी अध्ययन और पक्षियों के परिणामी ज्ञान से संबंधित है, जो उनसे संबंधित है।
- इच्छिथोलॉजी मछली के अध्ययन के लिए समर्पित प्राणीशास्त्र की शाखा है।

- कीटविज्ञान कीटों का वैज्ञानिक अध्ययन है और रेवरेंड विलियम किर्बी आधुनिक कीट विज्ञान के जनक हैं।
- हर्पेटोलॉजी उभयचरों और सरीसृपों का वैज्ञानिक अध्ययन है।
- उभयचर शीत-रक्त वाले कशेरुकियों का एक वर्ग है जो मेंढक, टोड, सैलामैंडर, न्यूट्स और सीसिलियन से बने होते हैं।

80. B

Sol. • जैमी फेरन ने 1885 में हैजा का टीका विकसित किया।

- हैजा के टीके वे टीके हैं जो हैजा की रोकथाम में प्रभावी हैं।
- इसे विश्व स्वास्थ्य संगठन की आवश्यक दवाओं की सूची में शामिल किया गया है।
- एडवर्ड जेनर चेचक के टीके के लिए जाने जाते हैं और उन्हें अक्सर प्रतिरक्षा विज्ञान का जनक कहा जाता है।
- जोनास एडवर्ड साल्क ने पहले सफल पोलियो टीके को विकसित किया।
- लियोन कैलमेट को ट्यूबरक्ल बेसिलस के जीवित, क्षीणित तनाव को स्थापित करने के लिए जाना जाता है।

81. C

Sol. • झारखंड में सबसे ज्यादा कोयला भंडार है।

- यह क्षेत्रफल के हिसाब से 15 वां सबसे बड़ा और जनसंख्या के हिसाब से 14 वां सबसे बड़ा राज्य है।
- यह आर्थिक विकास के मामले में अग्रणी राज्यों में से एक है।
- पश्चिम बंगाल कला और संस्कृति का वास स्थान है जो परंपरा और आधुनिकता का एक आदर्श मिश्रण है।
- छत्तीसगढ़ एक भू-आबद्ध और भारी वनाच्छादित राज्य है और भारत में सबसे तेजी से विकासशील राज्यों में से एक है।
- भारत के ओडिशा में अनुसूचित जनजातियों की तीसरी सबसे बड़ी आबादी है।
- यह अपने समृद्ध इतिहास और संस्कृति के लिए जाना जाता है और यह भारतीय उपमहाद्वीप के पूर्वी तट पर स्थित है।

82. A

Sol. • यूरोपीय चैपियंस कप या हेनेकेन कप रग्बी के साथ जुड़ा हुआ है।

- यह यूरोपियन प्रोफेशनल क्लब रग्बी द्वारा आयोजित एक वार्षिक रग्बी यूनियन टूर्नामेंट है।
- यह उन क्लबों के लिए शीर्ष स्तरीय प्रतियोगिता है, जिनके देशों की राष्ट्रीय टीमें छह राष्ट्र चैपियनशिप में प्रतिस्पर्धा करती हैं।

- रग्बी एक करीबी संपर्क टीम खेल है जिसकी उत्पत्ति 19 वीं शताब्दी के पूर्वार्ध में इंग्लैण्ड में हुई थी।
- फुटबॉल टीम के खेल का एक परिवार है जिसमें अलग-अलग डिग्री, गोल करने के लिए गेंद को किक करना शामिल है।
- हॉकी सबसे पुराना ज्ञात गेंद और छड़ी (स्टिक) का खेल है।

83. C

Sol. • भारत के संविधान में राज्यसभा के लिए सदस्यों के नामांकन की प्रक्रिया आयरलैंड से ली गई है।

- राज्य के नीति निर्देशक सिद्धांत और राष्ट्रपति के चुनाव की पद्धति भी आयरलैंड से उधार ली गई है।
- जर्मनी से उधार ली गई आपात स्थितियों के दौरान मौलिक अधिकारों को निलंबित कर दिया जाता है।
- प्रस्तावना में मौलिक कर्तव्यों और न्याय के आदर्शों को रूस से उधार लिया गया है।
- राष्ट्रपति पर महाभियोग, राष्ट्रपति और उपाध्यक्ष के कार्य, मौलिक अधिकार, न्यायिक समीक्षा और न्यायपालिका की स्वतंत्रता संयुक्त राज्य अमेरिका से उधार ली गई है।

84. D

Sol. • दस डिग्री चैनल अंडमान और निकोबार द्वीप समूह को अलग करता है।

- यह चैनल उत्तर से दक्षिण की ओर 150 किलोमीटर चौड़ा है।
- डंकन पैसेज हिंद महासागर में एक जलडमरुमध्य है।
- यह उत्तर में रटलैंड द्वीप और दक्षिण में लिटिल अंडमान को अलग करता है।
- मलिकू कंडू मिनिकॉर्ट और इहावंडीपुल्हु के बीच विस्तृत चैनल का पारंपरिक नाम है।
- पाक जलडमरुमध्य भारत के तमिलनाडु राज्य और श्रीलंका के द्वीप राष्ट्र के उत्तरी प्रांत के जाफना ज़िले के बीच एक जलडमरुमध्य है।

85. C

Sol. • पैठानी साड़ी बुनाई उद्योग महाराष्ट्र में स्थित है।

- यह रेशम और जरी से बनी साड़ी है।
- तीन प्रकार के रेशम धागों का उपयोग किया जाता है:

a) चरखा

b) कडल-गट्टा

c) चाइना सिल्क

- महाराष्ट्र भारत में सबसे अधिक आबादी वाला शहरी क्षेत्र और सबसे अधिक औद्योगीकृत राज्य है।
- गुजरात को व्यापक रूप से भारत के सबसे औद्योगिक रूप से विकसित राज्यों में से एक और एक विनिर्माण केंद्र माना जाता है।
- असम असम चाय और असम रेशम के लिए जाना जाता है और एशिया में तेल की डिरलिंग के लिए पहला स्थल है।

86. B

Sol. • वेद समाज की स्थापना 1864 में मद्रास (अब चेन्नई) में हुई थी।

- इसकी स्थापना केशव चंद्र सेन और के. श्रीधरलु नायदू ने की थी।
- यह दक्षिणी भारत में एक अत्यंत महत्वपूर्ण सामाजिक सुधार था।
- यह श्रीधरलु नायदू और केशव चंद्र सेन के प्रयासों से स्थापित किया गया था।
- चेन्नई दक्षिण भारत का सबसे प्रमुख सांस्कृतिक, आर्थिक और शैक्षिक केंद्र है।
- यह देश का छठा सबसे अधिक आबादी वाला शहर है और चौथा सबसे अधिक आबादी वाला शहरी समूह है।

87. D

Sol. • शृंगवरापुरा में पहली शताब्दी ईसा पूर्व में गंगा नदी के बाढ़ के पानी को प्रवाहित करने वाली जल संचयन प्रणाली थी।

- मिर्जापुर अपने कालीनों और पीतल के बर्तनों के उद्योगों के लिए जाना जाता है और इसमें कई झरने और प्राकृतिक स्थान हैं।
- गोरखपुर प्राचीन वैभव और मध्यकालीन रहस्यवाद की भूमि रही है।
- कानपुर ब्रिटिश भारत के सबसे महत्वपूर्ण व्यावसायिक और सैन्य स्टेशनों में से एक बन गया।
- यह अपनी औपनिवेशिक वास्तुकला, उद्यानों, पार्कों और उत्तम गुणवत्ता वाले चमड़े के उत्पादों के लिए प्रसिद्ध है।
- गंगा एशिया की एक सीमा पार नदी है जो भारत और बांग्लादेश से होकर बहती है।

88. B

Sol. • भारत के संविधान का अनुच्छेद 360 वित्तीय आपातकाल प्रदान करता है।

- यह राष्ट्रपति को वित्तीय आपातकाल की घोषणा करने का अधिकार देता है यदि वह संतुष्ट है कि वित्तीय स्थिरता के कारण एक स्थिति उत्पन्न हुई है।

- संपत्ति के अधिकार को अक्सर प्राकृतिक व्यक्तियों के लिए उनकी संपत्ति के संबंध में मानव अधिकार के रूप में वर्गीकृत किया जाता है।
- इसे मानव अधिकारों की सार्वभौम घोषणा के अनुच्छेद 17 में मान्यता दी गई है।
- मौलिक कर्तव्यों को देशभक्ति की भावना को बढ़ावा देने और भारत की एकता को बनाए रखने में मदद करने के लिए सभी नागरिकों के नैतिक दायित्वों के रूप में परिभाषित किया गया है।

89. A

Sol. • 'हर्षचरित' बाणभट्ट द्वारा लिखित भारतीय सम्राट हर्ष की जीवनी है।

- इसे संस्कृत भाषा में ऐतिहासिक काव्य कृतियों के लेखन की शुरुआत माना जाता है।
- बाणभट्ट 7वीं शताब्दी के संस्कृत गद्य लेखक और भारत के कवि थे।
- वाल्मीकि पूरे इतिहास में पहले लेखक हैं जिन्होंने खुद को अपनी रचना में शामिल किया है।
- रवींद्रनाथ टैगोर साहित्य में नोबेल पुरस्कार जीतने वाले पहले गैर-यूरोपीय और पहले गीतकार थे।
- उन्हें एक कवि के रूप में जाना जाता है, लेकिन वे कई प्रतिभाओं के व्यक्ति थे।

90. A

Sol. • दशहरा उत्सव के दौरान किया जाने वाला 'वीरगास' नृत्य कर्नाटक राज्य के लोक नृत्यों में एक विशेष स्थान रखता है।

- यह हिंदू पौराणिक कथाओं पर आधारित एक सशक्त नृत्य है।
- इसमें जंगमा द्वारा किए जाने वाले बहुत ही तीव्र ऊर्जा-व्यंजन नृत्य आंदोलन शामिल हैं।
- यह त्योहारों के दौरान और मुख्य रूप से शरावण और कार्तिक के हिंदू महीनों में किया जाता है।
- यह लिंगायत परिवारों के सभी महत्वपूर्ण कार्यों में किया जाता है।
- कर्नाटक जनसंख्या के हिसाब से आठवां सबसे बड़ा राज्य है और क्षेत्रफल के हिसाब से भारत का छठा सबसे बड़ा राज्य है।

91. C

Sol. • नरसिंहदेव 1 कोणार्क में बनाया गया सूर्य मंदिर था।

- कोणार्क सूर्य मंदिर हिंदू सूर्य देवता सूर्य को समर्पित है।
- यह भारतीय सांस्कृतिक विरासत के लिए इसके महत्व को दर्शाने के लिए 10 रूपये के भारतीय मुद्रा नोट के पीछे की तरफ चित्रित है।
- अनंतवर्मन चोडगंगदेव एक प्रसिद्ध गंगा वंश के राजा थे।

- समुद्रगुप्त प्राचीन भारत के गुप्त साम्राज्य का शासक और गुप्त वंश का दूसरा सम्राट था।
- वह मुख्य रूप से अपने कई सैन्य अभियानों के लिए जाने जाते हैं और वे गुप्त राजवंश के पहले महत्वपूर्ण शासक थे।

92. B

Sol. • अंजुम मौदगिल ने शूटिंग के लिए 2019 का अर्जुन पुरस्कार जीता।

- उन्हें राहुल द्रविड़ एथलीट मेंटरशिप प्रोग्राम के माध्यम से गोस्पोर्ट्स फाउंडेशन का समर्थन प्राप्त है।
- वह एक उत्साही अमूर्त कलाकार हैं और अपनी कई कलाकृतियाँ बेच चुकी हैं।
- अर्जुन पुरस्कार भारत का दूसरा सबसे बड़ा खेल सम्मान है।
- इसकी स्थापना 1961 में देश के उत्कृष्ट खिलाड़ियों को सम्मानित करने के लिए की गई थी।
- अर्जुन पुरस्कार के पहले प्राप्तकर्ता कृष्ण दास थे जिन्हें 1961 में तीरंदाजी के क्षेत्र में सम्मानित किया गया था।

93. A

Sol. • अमेरिका के 40वें राष्ट्रपति रोनाल्ड रीगन ने 1981 में अपने देश के इतिहास में सबसे बड़ी कर कटौती पर हस्ताक्षर किए और यह नीति लाफ़र कर्व के आसपास केंद्रित थी।  
• उन्होंने 1981 से 1989 तक संयुक्त राज्य अमेरिका के 40 वें राष्ट्रपति के रूप में कार्य किया।  
• लाफ़र कर्व एक सिद्धांत है जिसे आपूर्ति पक्ष द्वारा कर दरों और सरकारों द्वारा एकत्रित कर राजस्व की राशि के बीच संबंध दिखाने के लिए औपचारिक रूप दिया गया है।  
• लोरेंज वक्र आय या धन के वितरण का एक चित्रमय प्रतिनिधित्व है।  
• कुज़नेट वक्र 1950 और 1960 के दशक में अर्थशास्त्री साइमन कुज़नेट्स द्वारा विकसित एक परिकल्पना को व्यक्त करता है।

94. A

Sol. • हिक्कीज बंगाल गजट भारत का पहला अंग्रेजी भाषा का समाचार पत्र था।  
• यह एशिया में छपा पहला समाचार पत्र था और दो साल तक प्रकाशित हुआ था।  
• यह इसकी उत्तेजक पत्रकारिता और भारत में स्वतंत्र अभिव्यक्ति की लड़ाई के लिए महत्वपूर्ण था।  
• मद्रास कूरियर मद्रास में प्रकाशित होने वाला पहला समाचार पत्र था और इसकी शुरुआत रिचर्ड जॉनसन ने की थी।  
• बॉम्बे हेराल्ड बॉम्बे, भारत में प्रकाशित होने वाले पहले अंग्रेजी समाचार पत्रों में से एक था।

- समाचार पत्र 1900 के प्रारंभ तक प्रकाशित होता रहा।

95. B

Sol. • 17वीं लोकसभा की राज्यवार सूची के अनुसार लोकसभा में बिहार को 40 सीटें आवंटित की गई हैं।

- 17 वीं लोकसभा का गठन 2019 के भारतीय आम चुनाव में चुने गए सदस्यों द्वारा किया गया था।
- इसमें कुल 78 के साथ महिला राजनेताओं की संख्या सबसे अधिक है जो लगभग 14% है।
- यह मई 2019 में चुना गया था और यह अब तक का नवीनतम है।
- लोकसभा भारत की द्विसदनीय संसद का निचला सदन है।

- भारत के संविधान द्वारा आवंटित सदन की अधिकतम सदस्यता 552 है।

96. C

Sol. • सरोजिनी नायडू 'द गोल्डन थ्रेशोल्ड' पुस्तक की लेखिका थीं।

- वह औपनिवेशिक शासन से स्वतंत्रता के लिए भारत के संघर्ष में एक महत्वपूर्ण व्यक्ति थीं।
- डॉ. राजेंद्र प्रसाद 1950 से 1962 तक भारत के पहले राष्ट्रपति थे।
- जवाहरलाल नेहरू भारत के पहले प्रधानमंत्री थे।
- वह 1930 और 1940 के दशक में भारतीय राष्ट्रवादी आंदोलन के प्रमुख नेता थे।
- जेडे भुट्टो ने 1973 से 1977 तक पाकिस्तान के नौवें प्रधान मंत्री के रूप में कार्य किया।
- वह पाकिस्तान पीपुल्स पार्टी के संस्थापक भी थे।

97. B

Sol. • राजस्व प्राप्तियों और गैर-ऋण पूँजीगत प्राप्तियों (एनडीसीआर) और कुल व्यय के बीच के अंतर को राजकोषीय घाटा कहा जाता है।

- राजकोषीय घाटे की गणना उसके सकल घरेलू उत्पाद के प्रतिशत के रूप में की जाती है और चालू वित्त वर्ष के लिए, सरकार को सकल घरेलू उत्पाद के 68% घाटे की उम्मीद है।
- राजस्व घाटा सरकार के पास अपने दिन-प्रतिदिन के मामलों को बनाए रखने के लिए धन की कमी को दर्शाता है।
- प्रभावी राजस्व घाटा राजकोषीय घाटे और पूँजीगत संपत्ति के निर्माण के लिए अनुदान के बीच के अंतर को दर्शाता है।
- यह सरकार के वास्तविक उपभोग व्यय के लिए उपयोग की जाने वाली पूँजीगत प्राप्तियों की संख्या को दर्शाता है।

- प्राथमिक घाटा चालू वर्ष के राजकोषीय घाटे और पिछले उधारों पर ब्याज भुगतान के बीच के अंतर के रूप में जाना जाता है।

98. D

Sol. • दो महाकाव्य, 'रघुवंश' और 'कुमारसंभव' कालिदास की रचनाएँ हैं।

• रघुवंश एक महाकाव्य है जिसमें 1564 श्लोक हैं।

• कुमारसंभव को व्यापक रूप से कालिदास की बेहतरीन कृति के साथ-साथ शास्त्रीय संस्कृत में सबसे बड़ी काव्य कविता के रूप में माना जाता है।

• कालिदास को प्राचीन भारत का महानतम कवि और नाटककार माना जाता है।

• शिवानंद 1936 में डिवाइन लाइफ सोसाइटी के संस्थापक थे।

• वाल्मीकि को संस्कृत साहित्य के अग्रदृढ़-कवि के रूप में जाना जाता है।

99. B

Sol. • कैल्शियम बेकिंग सोडा का घटक नहीं है।

• यह शरीर में सबसे प्रचुर मात्रा में पाया जाने वाला खनिज है और कई खाद्य पदार्थों में पाया जाने वाला एक आवश्यक पोषक तत्व है।

• सोडियम एक नरम, चांदी की तरह सफेद, अत्यधिक प्रतिक्रियाशील धातु है और यह पृथ्वी की पपड़ी में पाया जाने वाला छठा सबसे प्रचुर तत्व है।

• हाइड्रोजन ब्रह्मांड में पाया जाने वाला सबसे हल्का तत्व और सबसे प्रचुर मात्रा में पाया जाने वाला रासायनिक पदार्थ है।

• ऑक्सीजन पृथ्वी का सबसे प्रचुर मात्रा में पाया जाने वाला तत्व है और ब्रह्मांड में पाया जाने वाला तीसरा सबसे प्रचुर तत्व है।

• हाइड्रोजन ब्रह्मांड में पाया जाने वाला सबसे हल्का तत्व और सबसे प्रचुर मात्रा में पाया जाने वाला रासायनिक पदार्थ है।

100. D

Sol. • निक्टालोपिया (Nyctalopia), जिसे आमतौर पर रत्तौंधी के रूप में जाना जाता है, विटामिन A की कमी के कारण होता है।

• यह एक ऐसी स्थिति है जिससे अपेक्षाकृत कम रोशनी में देखना मुश्किल या असंभव हो जाता है।

• विटामिन C एक पानी में घुलनशील विटामिन है और इसका उपयोग स्कर्वी की रोकथाम और उपचार के लिए किया जाता है।

• मैग्नीशियम पृथ्वी की पपड़ी में आठवां सबसे प्रचुर तत्व है और पृथ्वी में चौथा सबसे आम तत्व है।

• पोटेशियम शरीर में सबसे महत्वपूर्ण खनिजों में से एक है।

- यह आपके दिल की धड़कन को नियमित रखने और आपकी मांसपेशियों को सही काम करने में महत्वपूर्ण भूमिका निभाता है।