



SSC MTS 2020 Tier I : 26

October S3

Mock Test Questions & Solutions

Mock Test Solutions in English

Questions

- 1. Direction:** Select the most appropriate synonym of the given word.

ACHIEVE

- A. Confuse
 - B. Succeed
 - C. Prevent
 - D. Avoid

2. **Direction:** Select the INCORRECTLY spelt word.

- | | |
|---------------|------------------|
| A. Indicashun | B. Advertisement |
| C. Weather | D. Excuse |

- 3. Direction:** Select the most appropriate synonym of the given word.

DETERMINED

- | | |
|------------------|-------------|
| A. Disillusioned | B. Resolute |
| C. Inspired | D. Intense |

- 4. Direction:** Select the most appropriate ANTONYM of the given word.

DISASTER

- A. Safety
 - B. Downfall
 - C. Collapse
 - D. Success

5. **Direction:** Select the most appropriate option to substitute the underlined segment. If no substitution is required, select 'No substitution required'.

Rohit had hardly stepped into the office than he was summoned by his boss.

- A. No substitution required B. than he is summoned
C. when he was summoned D. then he were summoned

- 6. Select the INCORRECTLY spelt word.**

- 7. Direction:** Select the most appropriate meaning of the given idiom.

Change hands

- A. Pass from one person to another
- B. Give away something you do not need
- C. Move from one hand to another
- D. Carry something in both hands

8. **Direction:** Identify the segment in the sentence which contains a grammatical error.

I'm sure that I found the place without any difficulty when I go next time.

- A. when I go next time
- B. without any difficulty
- C. I'm sure that
- D. I found the place

9. **Direction:** Select the most appropriate option to fill in the blank.

To get the _____ idea you need to read through the paragraph first.

- A. inside
- B. internal
- C. altogether
- D. overall

10. **Direction:** 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'.

Girish was able to drive down from Bengaluru in ten hours as there was very little traffic on the highway.

- A. as there was very less
- B. as there were very little
- C. as there was a very little
- D. No substitution required

11. **Direction:** Select the most appropriate option to fill in the blank.

It is the story of a king who was fond of being _____ lies.

- A. telling
- B. said
- C. told
- D. tell

12. **Direction:** Select the most appropriate one-word substitution for the given group of words.

Move suddenly and powerfully forward or upward

- A. Abound
- B. Thrive
- C. Surge
- D. Flourish

13. **Direction:** Select the most appropriate one-word substitution for the given group of words.

A grant or payment to support a student's education

- A. Fund
- B. Scholarship

- C. Sponsor D. Advance

14. **Direction:** Identify the segment in the sentence which contains a grammatical error.

You are fond of instrumental music, isn't it?

A. fond of B. You are
C. instrumental music D. isn't it

15. **Direction:** Identify the segment in the sentence which contains a grammatical error.

Investigations have been going on for a long time to produce an environment-friendly plastic that decay and become a part of the soil.

A. for a long time B. Investigations have been going on
C. that decay and become a part of the soil D. to produce an environment-friendly plastic

16. **Direction:** Select the most appropriate option to fill in the blank.

A recent survey on the subject of fear asked people to _____ to a list of common phobias.

A. review B. answer
C. reflect D. respond

17. **Direction:** 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'.

You can find several kind of birds in the Mysore Zoo, pelicans, flamingos, hornbills and egrets.

A. several kinds of birds B. several kind of bird
C. kind of several birds D. No substitution required

18. **Direction:** Select the most appropriate meaning of the given idiom.

Out of the question

A. Not possible at all B. Very badly written
C. Very difficult D. Not in the syllabus

19. **Direction:** Select the most appropriate ANTONYM of the given word.

HIGHLIGHT (v.)

A. Consider B. Describe
C. Recognise D. Downplay

20. **Direction:** Select the most appropriate option to fill in the blank.

It is mandatory for information about the _____ of the product to be given on the label.

- | | |
|----------------|-----------------|
| A. ingredients | B. requirements |
| C. essentials | D. materials |

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.

You must pace your work. What (1)_____ I mean? I'm glad you (2)_____ that question. We pace our work according (3)_____ the eight-hour workday. If you (4)_____ twelve hours of work in your in-box, for example, you must (5)_____ that work into the eight-hour day.

Select the most appropriate option to fill in blank No. 1

- | | |
|---------|---------|
| A. am | B. do |
| C. will | D. have |

22. Select the most appropriate option to fill in blank No. 2

- | | |
|----------|----------|
| A. say | B. find |
| C. spoke | D. asked |

23. Select the most appropriate option to fill in blank No. 3

- | | |
|-------|---------|
| A. by | B. with |
| C. to | D. from |

24. Select the most appropriate option to fill in blank No. 4

- | | |
|--------------|---------------|
| A. had | B. have |
| C. will have | D. are having |

25. Select the most appropriate option to fill in blank no. 5

- | | |
|-------------|-------------|
| A. compress | B. expand |
| C. stretch | D. increase |

26. **Which of the following numbers will replace the question mark (?) in the given series?**

57, 71, 88, 109, 135, ?

27. Two statements are given followed by three conclusions numbered I, II and III. 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 crows are sparrows.

All ducks are sparrows.

Conclusions:

- I. No sparrow is a crow.
 - II. No crow is a duck.
 - III. Some crows are ducks.

A. Only conclusions I and II follow

B. Only conclusions II and III follow

C. Only conclusions I and III follow

D. Either conclusion II or III follows

28. In a certain code language, 'MINT' is written as 'TNIM'. How will 'CORTEX' be written in that language?

29. Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).





30. Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.



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

Kathmandu : Nepal :: Thimphu : ?

A. Bhutan

C. China

B. Sri Lanka

D. Maldives

32. Which two signs should be interchanged to make the given equation correct?

$$4 + 5 - 16 \times 4 \div 2 = 1$$

A. + and -

B. ÷ and ×

C. ÷ and -

D. + and ×

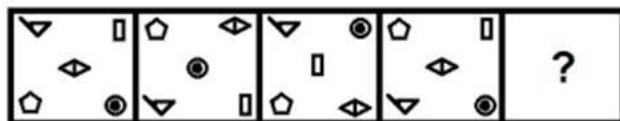
33. Five persons are waiting to buy a ticket in a queue. Dipti is standing just behind Harsha. Vinita is just

before Mrunal. Sindhu is just after Dipti. If Vinita is the first person standing in the queue, who is the last person in the queue?



- A. **E 3 A P E** B. **E 3 A P E**
C. **E 3 A P E** D. **E 3 A P E**

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



- A. 

B. 

C. 

D. 

37. Which of the following letter-clusters will replace the question mark (?) in the given series?

KTY, NXD, QBI, TEN, ?

38. In a certain code language, 'MARKS' is written as 'NASLT', and 'PORT' is written as 'QOSU'. How will 'FINGER' be written in that language?

- | | |
|-----------|-----------|
| A. GIOFDS | B. GJOHFS |
| C. GIOHES | D. EIOKET |

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

15	4	161
12	3	117
16	5	?

40. Select the set of classes the relationship among which is best illustrated by the following Venn diagram.



41. Which two numbers should be interchanged to make the given equation correct?

$$81 + 45 \div 3 - 18 \times 9 = 32$$

42. 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:

No shop is a restaurant.

All restaurants are parks.

Conclusions:

I. Some parks are restaurants.

II. No restaurant is a shop.

A. Neither conclusion I nor II follows

C. Only conclusion I follows

B. Only conclusion II follows

D. Both conclusions I and II follow

43. If $G > T$, $H = B$, $T > H$, $M = T$ and $B > K$, then which of the following expressions is correct?

A. $G = T$

B. $K < H$

C. $B > T$

D. $G < M$

44. **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.**

NORWAY : YWRONA :: PORTUGAL : ?

A. URTOPPLGA

B. UTPRLOGA

C. ATRPOGLU

D. UTRPOLGA

45. In a certain code language, 'FLOOD' is written as '25', and 'HINT' is written as '15'. How will 'FAST' be written in that language?

A. 18

B. 64

C. 78

D. 60

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

Books : School Bag :: Gas stove : ?

- | | |
|-----------------|---------|
| A. Kitchen | B. Chef |
| C. Gas cylinder | D. Food |

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



- A.  B. 

C.  D. 

48. In a certain code language, 'LOAN' is written as '15122613'. How will 'DEUCE' be written in that language?

49. Which of the following numbers will replace the question mark (?) in the given series?

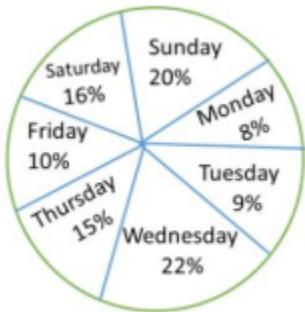
17, 17, 34, 102, 408, ?

50. Select the option that is related to the third number in the same way as the second number is related to the first number.

7 : 53 :: 9 : ?

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

The given chart represents the percentage-wise distribution of the total number of vanilla cakes and chocolate cakes sold on each day of the week. The total number of cakes sold in a week = 10500.



If the ratio of vanilla cakes sold to chocolate cakes sold on Wednesday is 13 : 8, then how many vanilla cakes are sold on that day?

52. The ratio of vanilla cakes sold to chocolate cakes sold on Friday is $4 : 3$. If the price of one vanilla cake is Rs. 8 and that of one chocolate cake is Rs. 7, then the total amount earned by selling all vanilla cakes and chocolate cakes on Friday is:

A. Rs.6,950 B. Rs.7,950
C. Rs.8,000 D. Rs.7,500

53. If the average number of vanilla cakes sold on Thursday and Sunday is 1020, and the number of chocolate cakes sold on Thursday is 245 more than the number of chocolate cakes sold on Sunday, then the number of chocolate cakes sold on Thursday is:

A. 950 B. 840
C. 940 D. 850

54. If the ratio of the mean and median of a certain data is $4 : 5$, then the ratio of its mode and mean is:

A. $7 : 5$ B. $6 : 5$
C. $8 : 5$ D. $7 : 4$

55. An article was bought for Rs.14,000 and sold at $\frac{4}{7}$ of its cost price. The loss percentage is:

A. $42\frac{3}{7}\%$ B. $42\frac{5}{7}\%$
C. $42\frac{6}{7}\%$ D. $41\frac{6}{7}\%$

56. The average of four consecutive even numbers is 27 . The smallest number is:
A. 20 B. 26
C. 24 D. 22

57. A can do a work in $7\frac{1}{2}$ days, whereas B can do the same work in $10\frac{1}{2}$ days. If they worked together, then the same work would be completed in:
A. $4\frac{3}{8}$ days B. 4 days
C. $4\frac{1}{2}$ days D. $4\frac{1}{8}$ days

58. If a certain sum amounts to Rs.27,450 in 5 years at simple interest at the rate of $10\frac{1}{2}\%$ p.a., then the sum is:
A. Rs.18,000 B. Rs.16,500
C. Rs.16,000 D. Rs.17,000

59. The value of $5 - 5 \div 5 \times 5 + (7 \div 7 \text{ of } 6) \times 6 - \left(3\frac{2}{3} \div \frac{11}{30} \text{ of } \frac{2}{3}\right) \div 5$ is:
A. -1 B. 0
C. 1 D. -2

60. A loss of $12\frac{1}{2}\%$ gets converted into a profit of $11\frac{1}{5}\%$ when the selling price is increased by Rs.118.5. The cost price of the article is:
A. Rs.550 B. Rs.600
C. Rs.800 D. Rs.500

61. Vineeth is younger than Vinoth by 8 years. If 4 years ago, their ages were in the ratio of 1 : 2, then the present age of Vinoth is:
A. 28 years B. 22 years
C. 20 years D. 25 years

62. The average speed of a train is 160% of the average speed of a car. The car covers a distance of 880 km in 16 hours. The time taken by the train to cover a distance of 484 km is:
A. $7\frac{1}{2}$ hours B. $4\frac{1}{2}$ hours
C. $5\frac{1}{2}$ hours D. 5 hours

63. If the side of a square is increased by 40%, then its area will be increased by:

A. 90%

C. 92%

B. 96%

D. 86%

64. The ratio of the curved surface area and total surface area of a cylinder is 4 : 7. If its volume is 4851 cm^3 , then its radius is:

(Take $\pi = \frac{22}{7}$)

A. 10 cm

C. 9.5 cm

B. 7 cm

D. 10.5 cm

65. The ratio of A's and B's salary is 6 : 7. If A's salary is increased by $5\frac{1}{2}\%$, then his total salary becomes 1,26,600. Find the salary of B.

A. Rs.1,45,000

B. Rs.1,20,000

C. Rs.1,30,000

D. Rs.1,40,000

66. The LCM and HCF of two positive numbers are 96 and 8, respectively. If the sum of the numbers is 56, then the difference between the numbers is:

A. 12

B. 8

C. 10

D. 9

67. A and B can do a work in 12 days and 18 days, respectively. They worked together for 4 days, after which B was replaced by C and the remaining work was completed by A and C in the next 4 days. In how many days will C alone complete the same work?

A. 42

B. 32

C. 30

D. 36

68. A car covers a distance of 300 km with uniform speed. The time taken for the journey is one-third of the speed in km/h. The time taken to cover the distance of 300 km is:

A. 10 hours

B. 8 hours

C. 9 hours

D. 12 hours

69. The curved surface area of a cone is $\frac{3432}{7} \text{ cm}^2$ and its radius is 12 cm. What is the radius of a sphere whose volume is 1.2 times the volume of the cone? (Take $\pi = \frac{22}{7}$)

A. 8 cm

B. 6 cm

C. 5 cm

D. 4 cm

70. The average monthly expenditure of a family is Rs.12,000 for the first 4 months, Rs.15,000 for the next 3

months, and Rs.17,000 for the last 5 months. If the family saves Rs.1,52,000 throughout the year, then the average monthly income of the family is:

- | | |
|--------------|--------------|
| A. Rs.27,000 | B. Rs.25,700 |
| C. Rs.26,500 | D. Rs.27,500 |
71. At what percent per annum will Rs.12,500 amount to Rs.14,045 in 2 years if the interest is compounded annually?
- | | |
|-------|-------|
| A. 7% | B. 9% |
| C. 6% | D. 8% |
72. A reduction of $12\frac{1}{2}\%$ in the price of an item enables a person to buy 2.5 kg more for Rs.280. The reduced price of the item per kg is:
- | | |
|----------|----------|
| A. Rs.13 | B. Rs.15 |
| C. Rs.12 | D. Rs.14 |
73. $\frac{11}{5}$ of a number A is 22% of a number B. The number B is equal to 2.5% of a third number, C . If the value of number C is 5500, then the sum of 40% of A and 20% of B is:
- | | |
|-------|-------|
| A. 30 | B. 33 |
| C. 32 | D. 36 |
74. A circular wire of diameter 56 cm is folded in the shape of a rectangle whose sides are in the ratio of 7 : 4 . The area enclosed by the rectangle is: (Take $\pi = \frac{22}{7}$)
- | | |
|-------------------------|-------------------------|
| A. 1842 cm ² | B. 1792 cm ² |
| C. 1684 cm ² | D. 1782 cm ² |
75. A sum of x amounts to Rs.27,900 in 3 years and to Rs.41,850 in 6 years at a certain rate per cent per annum when the interest is compounded yearly. The value of x is:
- | | |
|-----------|-----------|
| A. 18,400 | B. 17,600 |
| C. 17,800 | D. 18,600 |
76. Which state of India had the lowest number of districts as of September 2020?
- | | |
|----------------------|-------------|
| A. Goa | B. Nagaland |
| C. Arunachal Pradesh | D. Sikkim |
77. The Lucknow Pact was signed in _____.
- | | |
|---------|---------|
| A. 1920 | B. 1922 |
|---------|---------|

C. 1916

D. 1930

78. Who among the following was a freedom fighter, based on whose design the present Indian National Flag is designed?
- A. Tanguturi Prakasam B. Pingali Venkaiah
C. Badal Gupta D. Tirot Sing
79. In which Indian state is the 'Bhushi Lake' located?
- A. Punjab B. Rajasthan
C. Gujarat D. Maharashtra
80. Which gland produces Cortisol often known as a 'stress hormone' in humans?
- A. Thyroid gland B. Pituitary gland
C. Adrenal gland D. Pineal gland
81. Which Indian state is the source of the rivers Brahmani, Kharkai and Subarnarekha?
- A. Madhya Pradesh B. Bihar
C. Jharkhand D. Uttar Pradesh
82. In which year was the National Bank for Agriculture and Rural Development Bank (NABARD) established?
- A. 1952 B. 1962
C. 1982 D. 1972
83. Who among the following got the 2018 Nobel Prize in Physiology or Medicine for launching an effective new way to attack cancer by treating the immune system rather than the tumour?
- A. Jeffrey Hall B. Michael Rosbash
C. Michael W Young D. James P Allison
84. 'Tolu Bommalata' (leather shadow puppet show) is a traditional art form from the state of:
- A. Karnataka B. Kerala
C. Tamil Nadu D. Andhra Pradesh
85. Launched in 1951, India's first five-year plan was based on which of the following economic models to focus on agriculture and irrigation to boost farm output?
- A. Heckscher-Ohlin Model B. Harrod-Domar Model
C. Mundell-Fleming Model D. Cobb-Douglas Model
86. Which Indian scientist was conferred the distinction of Chevalier de l'Ordre national de la Légion d'Honneur by the Government of France in May 2019?
- A. GMadhavan Nair B. Tapan Mishra

- C. AS Kiran Kumar D. Mylswamy Annadurai

87. Which aspect of the financial system do the Basel Norms focus on?
A. Share market B. Insurance
C. Banking D. Commodity market

88. Which Indian actor is the author of the book 'Mrs Funny bones: She's just Like You and a Lot Like Me'?
A. Twinkle Khanna B. Sonali Bendre
C. Madhuri Dixit D. Aishwarya Rai

89. Who among the following was the youngest ever Governor of an Indian state as of July 2020?
A. Jagdish Mukhi B. Swaraj Kaushal
C. Sharda Mukherjee D. Margaret Alva

90. Which city was the capital of the French Colony in India?
A. Cochin B. Tuticorin
C. Pondicherry D. Panjim

91. 'Mopin', a festival to drive away evil spirits, is celebrated in the state of:
A. Kerala B. Rajasthan
C. Arunachal Pradesh D. Chhattisgarh

92. Which of the following is a mountain peak that rises above the surrounding peaks at the mountainous border of the Indian state of Nagaland and the Sagaing region of Myanmar?
A. Mount Kalsubai B. Mount Doddabetta
C. Mount Saramati D. Mount Dhupgarh

93. Which of the following is a performing art from the state of Maharashtra?
A. Kalbelia B. Kheliran
C. Dandi Gair D. Lavani

94. Which of the following rocks floats in water?
A. Granite B. Obsidian
C. Pumice D. Slate

95. Which of the following household items contains sulphuric acid?
A. Toothpaste B. Vinegar
C. Battery D. Butter

96. Five to eight per cent solution of acetic acid in water is known as:
A. vinegar B. lime

Solutions

1. B

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

Achieve = to succeed in reaching a particular goal, status or standard, especially by making an effort for a long time.

E.g.: She has worked hard to **achieve** her goal.

Confuse = to make someone unable to think clearly or understand something.

Succeed = to achieve something that you have been trying to do or get.

E.g.: He **succeeded** in getting a place at dance academy.

Prevent = to stop someone from doing something.

Avoid = to prevent something bad from happening.

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

2. A

Sol. **Option A has incorrectly spelt word.**

“Indication” is the correct spelling of the incorrect word “Indicashun”. It means a remark or sign that shows that something is happening or what someone is thinking or feeling.

The meaning of other words are:

Advertisement: a notice, picture, or film telling people about a product, job or service.

Weather: the condition of atmosphere at a particular place and time. Excuse: a reason, either true or invented, that you give to explain or defend your behavior.

3. B

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

Determined = having made a definite decision to do something and not letting anyone prevent you.

E.g.: The opposition to her plan made her more **determined** than ever.

Disillusioned = disappointed because the person you admired or the idea you believed to be good and true now seems without value.

Resolute = strong and determined

E.g.: His voice sounded calm and **resolute**.

Inspired = have excellent qualities or abilities.

Intense = very great; very strong.

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

4. D

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

Disaster = a terrible situation or event

E.g.: This year's lack of rain could spell disaster for the region.

Safety = the state of being safe and protected from danger or harm.

Downfall = the loss of a person's money, power, social position etc.

Collapse = a sudden failure of something.

Success = the fact that you have achieved something that you want and have been trying to do or get.

E.g.: Their plan will probably meet with little **success**.

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

5. C

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

- Underlined part needs correction in conjunction.
- To emphasize the idea of one thing coming immediately after another, we use conjunction: “Hardly....when” and “No sooner....than”.

For example:

I had **hardly** started work **when** I felt a pain in my back.

He had **no sooner** sat down **than** the phone rang.

- In the given sentence, we have erroneously used conjunction “than” with “Hardly”. It is used with “No sooner”. Thus, conjunction “when” should be used.
- Also, actual doer of verb “summon” is not the subject in the given sentence. This validates that sentence is written in passive voice. So, correct structure of passive verb should be written i.e. “was + third form of verb (i.e. summoned)”. Since, “he” is a singular noun so it will take a singular helping verb (i.e. “was”) as per the subject verb agreement.

- Hence, “**when he was summoned**” is the correct substitution.

Thus, the correct sentence will be:

Rohit had hardly stepped into the office when he was summoned by his boss.

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

6. A

Sol. **Option A has incorrectly spelt word.**

“Guidance” is the correct spelling of the incorrect word “Guidence”. It means help or advice that is given to someone, especially by someone older or with more experience.

The meaning of other words are:

Quiet: making very little noise.

Quandary: the state of not being able to decide what to do in a difficult situation.

Graphic: connected with drawings and design.

7. A

Sol. The idiom “**Change hands**” means to pass to a different owner.

Example: Shares worth one billion euros **changed hands** during a day of hectic trading.

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

8. D

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

Tense.

- We use “*will* + base form of verb” in the future tense.

For example:

We **will know** our exam results next week.

Will you still **love** me tomorrow?

- The second form of verb is used in the simple past tense.

For example:

Police **found** several guns in an abandoned car.

She **found** the whole concept faintly absurd.

• In the given sentence, the time word “next time” necessitates the use of the future tense in the sentence. But we have erroneously used the second form of verb “found” i.e. past tense. Thus, verb of future tense i.e. “will find” should be used in place of “found”.

- Hence, “**will find**” is the correct substitution.

Thus, the correct sentence will be:

I'm sure that I will find the place without any difficulty when I go next time.

9. D

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

- *Inside* = (adjective) forming the inner part of something.
- *Internal* = (adjective) connected with the inside of something.
- *Altogether* = (adverb) completely.

- *Overall* = (adjective) including all the things or people that are involved in a particular situation.

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

- “*Inside*” as an adjective means forming the inner part of something. Thus, option A is incorrect.
- “*Internal*” as an adjective is related to the inside of something. Thus, option B is incorrect.
- “*Altogether*” as an adverb means completely. Thus, option C is incorrect.
- “*Overall*” as an adjective means including all the things that are involved in a particular situation. Here in the given sentence, it is used to qualify the noun “idea”. It is used to mention that one needs to read through the paragraph in order to grasp all the aspects of an idea conveyed in the paragraph.

Thus, “*Overall*” becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

To get the overall idea you need to read through the paragraph first.

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

10. D

Sol. **The underlined part of the sentence is grammatically correct.**

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

11. C

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

- *Telling* = is the continuous form of verb “tell”.
- *Said* = is the second form of verb “say”.
- *Told* = is the second/third form of verb “tell”.
- *Tell* = means to give information to someone by speaking or writing.

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

- “*Telling*” is the continuous form of verb “tell”. But here we need a passive form of verb. Thus, option A is incorrect.
- “*Said*” is the second form of verb “say”. It means to speak something using words. Thus, option B is incorrect.
- “*Tell*” as a verb means to give information to someone by speaking or writing. Thus, option D is incorrect.
- “*Told*” is the second/third form of verb “tell”. Here in the given sentence, it is used as part of the passive form of gerund i.e. “being + third form of verb”.

Thus, “*Told*” becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

It is the story of a king who was fond of being told lies.

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

12. C

Sol. Abound: to exist in great numbers.

Thrive: to become, and continue to be, successful, strong, healthy etc.

Surge: to move quickly and with force in a particular direction.

Flourish: to develop quickly and become successful or common.

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

13. B

Sol. Fund: an amount of money that has been saved or has been made available for a particular purpose.

Scholarship: an amount of money given to someone by an organisation to help pay for their education.

Sponsor: a person or company that pays for a radio or television programme usually in return for advertising.

Advance: progress or a development in a particular activity or area of understanding.

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

14. D

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

- Question tags are written according to the subject and auxiliary of the main clause. If the main clause is in positive sense then a negative tag is used.

For example:

He is an honest and forthright person, **isn't he?**

- In the given sentence, we have used a negative question tag when main clause is written in positive sense. But helping verb (i.e. "is") and pronoun (i.e. "It") are written incorrectly in the structure of question tag. "You" is a subject in the main clause, so this should be the subject in the question tag. Also, the helping verb should be plural (i.e. "are") in accordance with this plural subject ("You").
- Hence, "**aren't you**" is the correct substitution.

Thus, the correct sentence will be:

You are fond of instrumental music, aren't you?

15. C

Sol. The sentence is grammatically incorrect, and the error lies in **option C**. The error is related to **Verb**.

- Verbs used after relative pronoun "that" are written according to the antecedent i.e. noun/pronoun written just before "that".

For example:

States need to understand how to access the federal **resources** that **are** available.

- In the given sentence, we have "plastic" as an antecedent that takes singular verb. But we have erroneously used plural verbs viz. "decay" and "become". Thus, singular verbs "decays" and "becomes" should be used.

- Hence, "**that decays and becomes a part of the soil**" is the correct substitution.

Thus, the correct sentence will be:

Investigations have been going on for a long time to produce an environment-friendly plastic that decays and becomes a part of the soil.

16. D

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

- *Review* = (verb) to write a report of a book, play, film etc. in which you give your opinion of it.
- *Answer* = (verb) to say, write or do something as a reaction to a question or situation.
- *Reflect* = (verb) to show the image of someone/something on the surface of something such as mirror, water or glass.
- *Respond* = (verb) to give a spoken or written answer to someone/something.

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

- “*Review*” as a verb is used in the context of writing your opinion about a book, play, film etc. Thus, option A is incorrect.
- “*Answer*” as a verb means to say, write or do something as a reaction to a question or situation. Thus, option B is incorrect.
- “*Reflect*” as a verb means to show the image of someone/something on the surface of something such as mirror, water or glass. Thus, option C is incorrect.
- “*Respond*” as a verb means to give a spoken or written answer to someone/something. Here in the given sentence, it is used to show that in a survey on fear, people were asked to give spoken or written answer to a list of common phobias.

Thus, “*Respond*” becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

A recent survey on the subject of fear asked people to respond to a list of common phobias.

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

17. A

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

- Underlined part needs correction in adjective.
- “Several” as a quantifier in a noun phrase is used to show “more than two but not very many”. It takes plural form of noun after it.

For example:

There are **several** large **stores** in London where you can buy practically anything.

He has written **several books** about India.

- In the given sentence, we have a noun phrase “several kind of birds”. “Several” is used like a quantifier to show that there are more than two kinds/types of birds in the zoo. This plurality in the usage of “several” as a quantifier necessitates the use of plural form of “kind” i.e. “kinds”.
- Hence, “**several kinds of birds**” is the correct substitution.

Thus, the correct sentence will be:

You can find several kinds of birds in the Mysore Zoo, pelicans, flamingos, hornbills and egrets.

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

18. A

Sol. The idiom "**Out of the question**" means impossible or not allowed and therefore not worth discussing.

Example: Another trip abroad this year is **out of the question**.

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

19. D

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

Highlight = (verb) to emphasize something, especially so that people give it more attention.

E.g.: The report **highlighted** the importance of exercise to maintain a healthy diet.

Consider = to think about something carefully.

Describe = to say what someone/something is like.

Recognise = to know who someone is or what something is when you see or hear them or it.

Downplay = to try to make something seem less important than it really is.

E.g.: The coach is **downplaying** the team's poor performance.

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

20. A

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

- *Ingredients* = (noun) things from which something is made, especially one of the foods that are used together to make a particular dish.

- *Requirements* = (noun) something that you need or want.

- *Essentials* = (noun) something that is needed in a particular situation.
- *Materials* = (noun) a substance that things can be made from.

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

- “*Requirements*” as noun means something that you need or want. Thus, option B is incorrect.
- “*Essentials*” as noun means something that is needed in a particular situation. Thus, option C is incorrect.
- “*Materials*” as noun means a substance that things can be made from. Thus, option D is incorrect.
- “*Ingredients*” as noun means things from which something is made, especially one of the foods that are used together to make a particular dish. Here in the given sentence, it is used to show that it is compulsory to list the things on the label from which the product is made.

Thus, “*Ingredients*” becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

It is mandatory for information about the ingredients of the product to be given on the label.

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

21. B

Sol. The given passage is about “**How to pace your work?**”.

“Am” is a helping verb which is used when “I” is the subject. It is used in present tense. Thus, option A is wrong.

“Will” is a modal verb which is used to show the possibilities. Thus, option C is wrong.

“Have” is a plural helping verb that is used to show the perfect aspect of a verb. As a main verb it shows the possession. Thus, option D is wrong.

“Do” is the plural verb form of “Do” verb. It is used in the present tense. Here in the given sentence, it is used for plural subject i.e. “I”. It is used in interrogative sentence to ask about what does the speaker meant when he/she says, “You must pace your work”.

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

22. D

Sol. The given passage is about **“How to pace your work?”**.

“Say” as a verb means to speak something using words. Thus, option A is wrong.

“Find” as a verb means to discover someone/something unexpectedly or by chance. Thus, option B is wrong.

“Spoke” is the second form of verb “speak”. It means to talk to someone about something. Thus, option C is wrong.

“Asked” as a verb means to say or write something in the form of a question, in order to get information. In the given sentence, it is used to mention that listener (i.e. “You”) questioned the speaker in order to get information about “pacing up the work”.

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

23. C

Sol. The given passage is about **“How to pace your work?”**.

“By” as a preposition is used for showing how or in what way something is done. Thus, option A is wrong.

“With” as a preposition is used to show “in the company or presence of someone/something”. Thus, option B is wrong.

“From” as a preposition is used to show where something starts. Thus, option D is wrong.

“According to” as a preposition is used to show “as stated or reported by someone/something”. In the given sentence, it is used to state that work should be paced as per the eight-hour workday.

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

24. B

Sol. The given passage is about **“How to pace your work?”**.

“Had” as a verb is used in past tense to show the possession. Thus, option A is wrong.

“Will have” is a part of structure of verb used in future perfect tense. Thus, option C is wrong.

“Are having” is a structure of continuous verb used in present continuous tense. Thus, option D is wrong.

“Have” as a verb is used in present tense to show the possession. Here in the given sentence, it is used to show possession of “twelve hours of work in in-box” in the conditional clause initiated by conjunction “If”.

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

25. A

Sol. The given passage is about **“How to pace your work?”**.

“Expand” as a verb means to become greater in size, number or importance. Thus, option B is wrong.

“Stretch” as a verb means to make something longer, wider by pulling it. Thus, option C is wrong.

“Increase” as a verb means to become greater in amount, number, value, etc. Thus, option D is wrong.

“Compress” as a verb means to reduce something and fit it into a smaller space or amount of time. In the given sentence, it is used to mention that “twelve hours of work” should be done in such a way that it becomes an “eight-hour day”.

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

26. A

Sol.

Here logic is that the difference between the number keeps on increasing by 3,4,5,6 and it goes on -

$$71+14=71$$

$$71+17=88$$

$$88+21=109$$

$$109+26=135$$

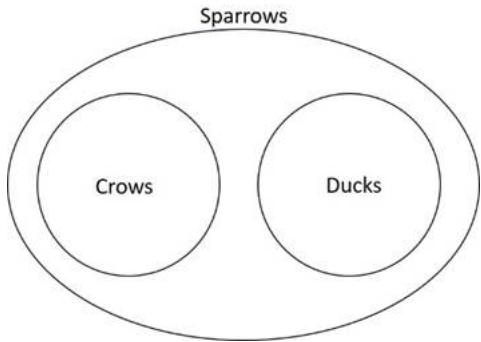
$$135+32=167$$

Hence, option A is the correct answer.

27. D

Sol.

The minimum Venn diagram is as follows –



Conclusions:

- I. No sparrow is a crow – False, as all crows are sparrows so some sparrows are crows.
- II. No crow is a duck - may be true or may be false as there is no direct relationship between them.
- III. Some crows are ducks- may be true or may be false if it is true then conclusion II is false.

So, either conclusion II or III follows

Hence, option D is the correct answer.

28. B

Sol.

The logic followed is that we write the word in reverse order.

MINT =TNIM

CORTEX= XETROC

Hence, option B is the correct answer.

29. B

Sol.

The given figure (X) is embedded in option B as shown -



Hence, option B is the correct answer.

30. A

Sol.

The figure given below will replace the questions mark in the given figure



Hence, option A is the correct answer.

31. A

Sol.

Kathmandu : Nepal :: Thimphu : Bhutan

Kathmandu is the capital of the Nepal similarly Thimphu is the capital of the Bhutan.

Hence, option A is the correct answer.

32. B

Sol.—

$$4 + 5 - 16 \times 4 \div 2 = 1$$



Replacing \div and \times we get,

$$4 + 5 - 16 \div 4 \times 2 =$$

Apply BODMAS

$$4+5-4\times 2$$

$$9-8$$

$$=1$$

Hence, option B is the correct answer.

33. D

Sol.

The arrangement of persons as per the question is –

Vinita	Mrunal	Harsha	Dipti	Sindhu
--------	--------	--------	-------	--------

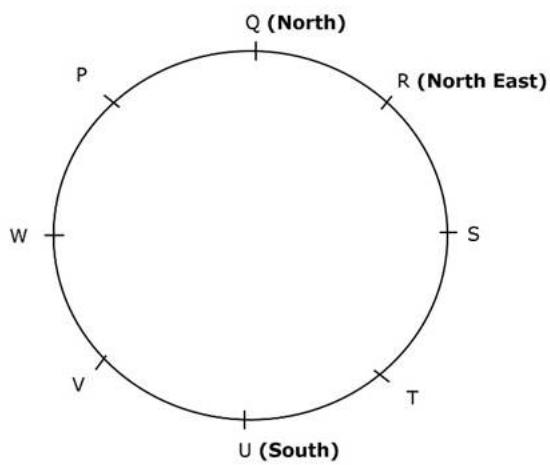
So, Sindhu is the last person in the queue.

Hence, option D is the correct answer.

34. A

Sol.

The pictorial arrangement as per the question is given below



So, R is sitting in the North East direction.

Hence, option A is the correct answer.

35. B

Sol.

The correct mirror image is as follows -



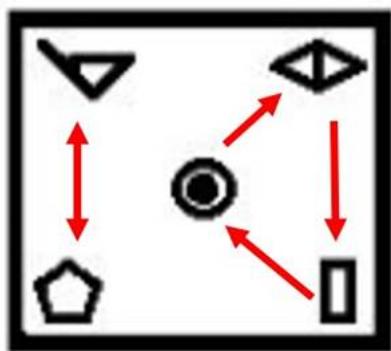
Hence, option B is the correct answer.

36. A

Sol.

The movement of the internal figures is as follows -

Thus, the next figure will be -



Hence, option A is the correct answer.

37. B

Sol.

The logic is as follows –

K+3=N	N+3=Q	Q+3=T	T+3= W
T+4=X	X+4=B	B+4=E	E+4= J
Y+5=D	D+5=I	I+5=N	N+5= S

Hence, option B is the correct answer.

38. C

Sol.

The logic followed here is explained in the table given below -

M +1=N	P+1=Q	F+1= G
A +0=A	O+0=O	I+0= I
R +1=S	R+1=S	N+1= O
K +1=L	T+1=U	G+1= H
S +1=T		E+1= E
		R+1= S

Hence, option C is the correct answer.

39. B

Sol. The logic followed here is explained below

$$\text{Third term} = (\text{first term})^2 - (\text{third term})^3$$

$$161 = 15^2 - 4^3 = 225 - 64 = 161$$

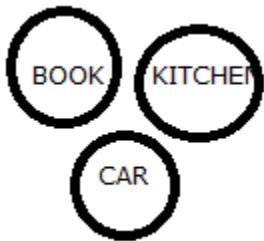
$$117 = 12^2 - 3^3 = 144 - 27 = 117$$

$$\text{Similarly, } ? = 16^2 - 5^3 = 256 - 125 = 131$$

Hence, option B is the correct answer.

40. B

Sol.



Book, kitchen and car are three different entities.

Hence, option B is the correct answer.

41. C

Sol.

$$81 + 45 \div 3 - 18 \times 9 = 32$$

Replacing 3 and 9

$$81 + 45 \div 9 - 18 \times 3 = 32$$

Apply BODMAS

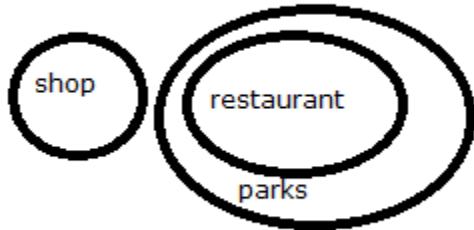
$$81+5-54=32$$

$$86-54=32$$

Hence, option C is the correct answer.

42. D

Sol.



Conclusions:

- I. Some parks are restaurants - True, as all restaurants are parks.
- II. No restaurant is a shop – True, as no shop is restaurant.

So, both the conclusions are true.

Hence, option D is the correct answer.

43. B

Sol.

The arrangement as per the given statement is given below -

$G > T = M > H = B > K$

$G = T$, false as $G > T$

$K < H$, true as $H = B$ and $B > K$

Hence, option B is the correct answer

44. D

Sol.

The logic followed here is that we write the alphabets in descending order.

NORWAY : YWRONA

Similarly PORTUGAL: UTRPOLGA

Hence, option D is the correct answer.

45. B

Sol.

The logic followed here is -

FLOOD	$6+12+15+15+4=52$	$\begin{matrix} \text{52=25} \\ \leftarrow\!\!\!\leftrightarrow\!\!\!\rightarrow \end{matrix}$
HINT	$8+9+14+20=51$	$\begin{matrix} \text{51=15} \\ \leftarrow\!\!\!\leftrightarrow\!\!\!\rightarrow \end{matrix}$
FAST	$6+1+19+20=46$	$\begin{matrix} \text{46=64} \\ \leftarrow\!\!\!\leftrightarrow\!\!\!\rightarrow \end{matrix}$

Hence, option B is the correct answer.

46. A

Sol.

Books : School Bag :: Gas stove : Kitchen

Books are placed in school bag similarly gas stove is placed in kitchen

Hence, option A is the correct answer.

47. A

Sol.

When the paper is folded and cut as per the instruction and then unfolded the image formed is given below



Hence, option A is the correct answer.

48. A

Sol.

$$\begin{array}{cccc} L & O & A & N \\ \uparrow & \uparrow & \uparrow & \uparrow \\ O & L & Z & M = 15122613 \end{array} \quad \begin{array}{ccccc} D & E & U & C & E \\ \uparrow & \uparrow & \downarrow & \downarrow & \uparrow \\ W & V & F & X & V = 232262422 \end{array}$$

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

Hence, option A is the correct answer.

49. D

Sol.

The logic followed here is explained in the table given below -

$17 \times 1 = 17$
$17 \times 2 = 34$
$34 \times 3 = 102$
$102 \times 4 = 408$
$408 \times 5 = 2040$

Hence, option D is the correct answer.

50. D

Sol.

$$7 : 53 :: 9 : 85$$

$$(\text{First digit})^2 + 4 :: (\text{Second digit})^2 + 4$$

$$7^2 = 49 + 4 = 53$$

$$9^2 = 81 + 4 = 85$$

Hence, option D is the correct answer.

51. D

Sol. Total cakes sold on Wednesday = $10500 \times 22\% = 2310$

Vanilla cakes sold on Wednesday = $2310 \times \frac{13}{21} = 1430$

Hence, option D is the correct answer.

52. B

Sol. Total cakes sold on Friday = $10500 \times 10\% = 1050$

Vanilla cakes sold on Friday = $1050 \times \frac{4}{7} = 600$

Chocolate cakes sold on Friday = $1050 - 600 = 450$

Total amount earned by selling all vanilla cakes and chocolate cakes on Friday = $600 \times 8 + 450 \times 7 = 4800 + 3150 = \text{Rs. } 7950$

Hence, option B is the correct answer.

53. C

Sol. Total number of cakes sold in Thursday and Sunday = $10500 \times (15 + 20)\%$
 $= 10500 \times 35\% = 3675$

Total no. of vanilla cakes sold on Thursday and Sunday = $1020 \times 2 = 2040$

Total no. of chocolate cakes sold on Thursday and Sunday = $3675 - 2040 = 1635$

\Rightarrow Number of chocolate cakes sold on Thursday + number of chocolate cakes sold on Sunday
 $= 1635$

$\Rightarrow 2 \times (\text{Number of chocolate cakes sold on Thursday}) - 245 = 1635$

$\Rightarrow 2 \times (\text{Number of chocolate cakes sold on Thursday}) = 1635 + 245$

$\Rightarrow \text{Number of chocolate cakes sold on Thursday} = 1880/2 = 940$

Hence, option C is the correct answer.

54. D

Sol. Given:

Ratio of the mean and median of a certain data is 4 : 5.

Let mean be 4x.

$$\text{Then, median} = (4x) \times \frac{5}{4} = 5x$$

And

$$\text{Mean} - \text{Mode} = 3(\text{Mean} - \text{Median})$$

$$\Rightarrow 4x - \text{Mode} = 3(4x - 5x)$$

$$\Rightarrow \text{Mode} = 4x - 3(-x)$$

$$\Rightarrow \text{Mode} = 4x + 3x = 7x$$

Now, ratio of its mode and mean

$$7x : 4x$$

$$7 : 4$$

Hence, option D is the correct answer.

55. C

Sol. Selling price = $\frac{4}{7}$ CP

$$\text{So, loss percentage} = \frac{\text{CP} - \text{SP}}{\text{CP}} \times 100$$

$$= \frac{\text{CP} - \frac{4}{7}\text{CP}}{\text{CP}} \times 100$$

$$= \frac{3}{7} \times 100 = 42\frac{6}{7}$$

Hence, option C is the correct answer.

56. C

Sol. Let the even numbers be $x - 3, x - 1, x + 1$ and $x + 3$

According to question,

$$\frac{x - 3 + x - 1 + x + 1 + x + 3}{4} = 27$$

$$\Rightarrow x = 27$$

Required,

$$x - 3 = 27 - 3 = 24$$

Hence, option C is the correct answer.

57. A

Sol. A can do work in $7\frac{1}{2}$ or $\frac{15}{2}$ days
Therefore, work done by A in 1 day = $\frac{2}{15}$
Similarly B can do work in $10\frac{1}{2}$ or $\frac{21}{2}$ days
Therefore, work done by B in 1 day = $\frac{2}{21}$
So, work done by both A and B in 1 day = $\frac{2}{21} + \frac{2}{15}$

$$\begin{aligned}&= \frac{10+14}{105} \\&= \frac{24}{105} \\&= \frac{8}{35}\end{aligned}$$

$$\text{So, time taken} = \frac{\frac{1}{8}}{\frac{8}{35}} = \frac{35}{8} = 4\frac{3}{8} \text{ days}$$

Hence, option A is the correct answer.

58. A

Sol. Let the sum be y

According to question

$$y\left(1 + \frac{10.5 \times 5}{100}\right) = 27450$$

$$\Rightarrow y(1 + 0.525) = 27450$$

$$\Rightarrow 1.525y = 27450$$

$$\Rightarrow y = 18000$$

Hence, option A is the correct answer.

59. D

Sol.

$$\begin{aligned}5 - 5 \div 5 \times 5 + (7 \div 7 \text{ of } 6) \times 6 - &\left(3\frac{2}{3} \div \frac{11}{30} \text{ of } \frac{2}{3}\right) \div 5 \\&= 5 - 5 \div 5 \times 5 + (7 \div 42) \times 6 - \left(\frac{11}{3} \div \frac{11}{45}\right) \div 5\end{aligned}$$

$$\begin{aligned}&= 5 - 5 \div 5 \times 5 + \frac{1}{6} \times 6 - 15 \div 5 \\&= 5 - 1 \times 5 + 1 - 3 \\&= 5 - 5 + 1 - 3 \\&= -2\end{aligned}$$

Hence, option D is the correct answer.

60. D

Sol. Old selling price = $\left(100 - 12\frac{1}{2}\right)\%$ of CP

New selling price = $\left(100 + 11\frac{1}{5}\right)\%$ of CP

According to question,

Change in selling price = 118.5

$$\Rightarrow \left(100 + 11\frac{1}{5}\right)\% \text{ of CP} - \left(100 - 12\frac{1}{2}\right)\% \text{ of CP} = 118.5$$

$$\Rightarrow \left(\frac{56}{5} - \frac{25}{2}\right)\% \text{ of CP} = 118.5$$

$$\Rightarrow \left(\frac{112 + 125}{10}\right) \times \frac{1}{100} \text{ CP} = 118.5$$

$$\Rightarrow 237 \text{ CP} = 118500$$

$$\Rightarrow \text{CP} = 500$$

Hence, option D is the correct answer.

61. C

Sol. Let present age of Vinoth be x years then present age of Vineeth be $x - 8$ years

According to question

$$x - 12 : x - 4 = 1 : 2$$

$$\Rightarrow \frac{x - 12}{x - 4} = \frac{1}{2}$$

$$\Rightarrow 2x - 24 = x - 4$$

$$\Rightarrow x = 20$$

Hence, option C is the correct answer.

62. C

Sol. Average speed of car = $880/16 = 55$ km/h

Therefore, average speed of train = $160\% \text{ of } 55 = 1.6 \times 55 = 88$ km/h

Time taken by train to cover a distance of 484 km = $\frac{484}{88} = \frac{11}{2} = 5\frac{1}{2}$ hours

Hence, option C is the correct answer.

63. B

Sol. Let the length of side be x then new length = $1.4x$

Old area = x^2

New area = $(1.4x)^2 = 1.96x^2$

Percentage increase in area = $\frac{1.96x^2 - x^2}{x^2} \times 100$
= 96%

Hence, option B is the correct answer.

64. D

Sol. Let radius be r and height be h

According to question,

$$\frac{2\pi rh}{2\pi r(r+h)} = \frac{4}{7}$$
$$\Rightarrow \frac{h}{r+h} = \frac{4}{7}$$

$$\Rightarrow 7h = 4r + 4h$$

$$\Rightarrow h = \frac{4}{3}r$$

Given,

Volume = 4851

$$\Rightarrow \pi r^2 h = 4851$$

$$\Rightarrow \frac{22}{7} \times r^2 \times \frac{4}{3}r = 4851$$

$$\Rightarrow r^3 = \frac{441 \times 21}{8}$$

$$\Rightarrow r = \frac{21}{2} = 10.5 \text{ cm}$$

Hence, option D is the correct answer.

65. D

Sol. Let salary of A be $6x$ then salary of B be $7x$

Salary of A after increment = 126600

$$\Rightarrow (100 + \frac{5}{2})\% \text{ of } 6x = 126600$$

$$\Rightarrow (1.055)6x = 126600$$

$$\Rightarrow x = 20000$$

$$\text{So, salary of B} = 7x = 7 \times 20000 = 140000$$

Hence, option D is the correct answer.

66. B

Sol. Let the numbers be a and b

According to question,

$$\text{HCF} \times \text{LCM} = 96 \times 8$$

$$\Rightarrow ab = 768$$

$$\Rightarrow 4ab = 3072 \dots\dots(1)$$

Also,

$$a + b = 56$$

$$\Rightarrow (a + b)^2 = 3136 \dots\dots(2)$$

$$\text{Eq.2} - \text{eq.1}$$

$$(a + b)^2 - 4ab = 3136 - 3072$$

$$\Rightarrow (a - b)^2 = 64$$

$$\Rightarrow a - b = 8$$

Hence, option B is the correct answer.

67. D

Sol. Let the time taken by C to complete the work alone = y days

$$\text{Work completed by A and B in 4 days} = 4 \left(\frac{1}{12} + \frac{1}{18} \right)$$

$$= 4 \left(\frac{2+3}{36} \right) = \frac{5}{9}$$

$$\text{Remaining work} = 1 - \frac{5}{9} = \frac{4}{9}$$

According to question

$$4\left(\frac{1}{12} + \frac{1}{y}\right) = \frac{4}{9}$$

$$\Rightarrow 4\left(\frac{y+12}{12y}\right) = \frac{4}{9}$$

$$\Rightarrow 3y + 36 = 4y$$

$$\Rightarrow y = 36$$

Hence, option D is the correct answer.

68. A

Sol. Let the speed be $3y$ then time will be y .

According to question

$$3y \times y = 300$$

$$\Rightarrow y^2 = 100$$

$$\Rightarrow y = 10 \text{ km/h}$$

Hence, option A is the correct answer.

69. B

Sol. Let the height be h and slant height be L and radius of sphere be R

According to question,

$$\pi r L = \frac{3432}{7}$$

$$\Rightarrow \frac{22}{7} \times 12L = \frac{3432}{7}$$

$$\Rightarrow L = 13 \text{ cm}$$

$$\text{Height (h)} = \sqrt{L^2 - r^2} = \sqrt{13^2 - 12^2} = \sqrt{169 - 144} = 5 \text{ cm}$$

$$\text{Now, volume of cone} = \frac{1}{3} \pi r^2 h$$

$$\text{So, volume of sphere} = 1.2 \times \frac{1}{3} \pi r^2 h$$

$$\Rightarrow \frac{4}{3} \pi R^3 = 1.2 \times \frac{1}{3} \pi r^2 h$$

$$\Rightarrow \frac{4}{3}\pi R^3 = 1.2 \times \frac{1}{3}\pi \times 12^2 \times 5$$

$$\Rightarrow R^3 = 216$$

$$\Rightarrow R = 6 \text{ cm}$$

Hence, option B is the correct answer.

70. D

Sol. Total expenditure = $(4 \times 12000) + (3 \times 15000) + (5 \times 17000)$
= $48000 + 45000 + 85000$
= 178000

$$\text{Total income} = \text{total expenditure} + \text{Total savings}$$

$$= 178000 + 152000 = 330000$$

$$\text{Average monthly income} = 330000/12 = 27500$$

Hence, option D is the correct answer.

71. C

Sol. Let the interest rate be $y\%$

According to the question,

$$12500 \left(1 + \frac{y}{100}\right)^2 = 14045$$

$$\Rightarrow \left(1 + \frac{y}{100}\right)^2 = \frac{14045}{12500} = \frac{2809}{2500}$$

$$\Rightarrow \left(1 + \frac{y}{100}\right)^2 = \left(\frac{53}{50}\right)^2$$

$$\Rightarrow \left(1 + \frac{y}{100}\right) = \frac{53}{50}$$

$$\Rightarrow \frac{y}{100} = \frac{53}{50} - 1$$

$$\Rightarrow \frac{y}{100} = \frac{3}{50}$$

$$\Rightarrow y = 6$$

Hence, option C is the correct answer.

72. D

Sol. Let the price of an item be x and quantity be y

So,

$$xy = 280 \dots(1)$$

Also,

$$\left(1 - \frac{12.5}{100}\right)x(y + 2.5) = 280$$

$$\Rightarrow \frac{7}{8}x(y + 2.5) = 280 \dots \text{eq.(2)}$$

Eq.2 divided by eq.1

$$\frac{7x(y + 2.5)}{8xy} = \frac{280}{280}$$

$$\Rightarrow \frac{7(y + 2.5)}{8y} = 1$$

$$\Rightarrow 7y + 17.5 = 8y$$

$$\Rightarrow y = 17.5$$

Put this value in eq.2

$$\frac{7}{8}x(17.5 + 2.5) = 280$$

$$\Rightarrow \frac{7}{8}x = 14$$

So, reduced price of item = 14

Hence, option D is the correct answer.

73. B

Sol. Given,

$$C = 5500$$

$$\Rightarrow B = 2.5\% \text{ of } 5500$$

$$\Rightarrow B = 2.5 \times 55 = 137.5$$

Also,

$$\frac{11}{5}A = \frac{22}{100}B$$

$$\Rightarrow \frac{11}{5}A = \frac{22}{100} \times 137.5$$

$$\Rightarrow A = 13.75$$

Now, required

40% of A + 20% of B

$$= \frac{40}{100} \times 13.75 + \frac{20}{100} \times 137.5$$

$$= 5.5 + 27.5$$

$$= 33$$

Hence, option B is the correct answer.

74. B

Sol. Let the length of rectangle be $7y$ then width be $4y$

According to question,

$$2(7y + 4y) = 2\pi \times 28$$

$$\Rightarrow 11y = \frac{22}{7} \times 28$$

$$\Rightarrow y = 8$$

So area of rectangle = $7y \times 4y$

$$= 7 \times 8 \times 4 \times 8$$

$$= 1792$$

Hence, option B is the correct answer.

75. D

Sol. Let the interest rate be $y\%$ per annum

According to question

$$x \left(1 + \frac{y}{100}\right)^3 = 27900 \quad \dots\dots(1)$$

Also,

$$x \left(1 + \frac{y}{100}\right)^6 = 41850 \quad \dots\dots(2)$$

Eq.2 divide by eq.1

$$\frac{x \left(1 + \frac{y}{100}\right)^6}{x \left(1 + \frac{y}{100}\right)^3} = \frac{41850}{27900}$$
$$\Rightarrow \left(1 + \frac{y}{100}\right)^3 = \frac{41850}{27900}$$

$$\Rightarrow \left(1 + \frac{y}{100}\right)^3 = 1.5$$

Now, put this in Eq. (i)

$$(x) \times 1.5 = 27900$$

$$\Rightarrow x = 27900/1.5 = 18600$$

Hence, option D is the correct answer.

76. A

Sol.

* **Goa** is the India's smallest state by area and the fourth smallest by population.

* **Goa**

* In Goa, there are only two districts. North Goa and South Goa district.

* Uttar Pradesh (75) has the highest number of districts, followed by Madhya Pradesh (52).

* Pramod Sawant is the 13th and current Chief Minister of Goa.

* P. S. Sreedharan Pillai is the current governor of
Goa.

77. C

Sol. * The Lucknow Pact was signed in **1916**.

* It was an agreement reached between the Indian National Congress and the Muslim League.

* It was signed at a joint session of both the parties held in Lucknow in December 1916.

78. B

Sol. * The Indian Flag (tricolor) was designed by **Pingali Venkayya**.

* It was adopted in its present form during a meeting of the Constituent Assembly held on 22 July 1947.

* It became the official flag of the Dominion of India on 15 August 1947.

79. D

Sol. * Bhushi Lake is a placid water body

* It is formed by the watercourse of Bhushi Dam.

* It is located in **Lonavala, Maharashtra**.

80. C

Sol. * **Adrenal gland** produces **cortisol**.

- * Cortisol is a naturally-occurring steroid hormone.
- * It plays a key role in the body's stress response.
- * It is often called "the stress hormone".

81. C

Sol. * **Jharkhand** is the source of the rivers Brahmani, Kharkai and Subarnarekha.

- * The Brahmani river originates in the Santhal Parganas in Jharkhand.
- * Kharkai River originates in the Chhota Nagpur Plateau, Jharkhand.
- * It is one of the major tributaries of the Subarnarekha River.
- * Subarnarekha River is the smallest of India's main interstate river basins.
- * It originates near a village namely, Piska or Nagri close to Ranchi, Jharkhand.

82. C

Sol. * National Bank for Agriculture and Rural Development (NABARD) is an apex regulatory body for overall regulation of regional rural banks and apex cooperative banks in India.

- * It is under the jurisdiction of Ministry of Finance.
- * It was established on the recommendations of B.Sivaraman Committee on **12 July 1982**.
- * It is headquartered in Mumbai, Maharashtra.
- * Govinda Rajulu Chintala is the current chairman of NABARD.

83. D

Sol. * The Nobel Prize in Physiology or Medicine 2018 was awarded jointly to **James P. Allison and Tasuku Honjo** "for their discovery of cancer therapy by inhibition of negative immune regulation.

- * The Nobel Prize in Physiology or Medicine is awarded yearly by the Nobel Assembly for outstanding discoveries in physiology or medicine.
- * As of 2021, 112 Nobel Prizes in Physiology or Medicine have been awarded to 224 laureates, 212 men and 12 women.
- * The first Nobel Prizes in Physiology or Medicine was awarded in 1901 to the German physiologist Emil von Behring, for his work on serum therapy and the development of a vaccine against diphtheria.

* Nobel Prizes are awarded in the fields of Physics, Chemistry, Physiology or Medicine, Literature, and Peace.

84. D

Sol. * 'Tolu Bommalata' (leather shadow puppet show) is a traditional art form from the state of **Andhra Pradesh**.

* This form of art is believed to have originated in 200 BC during the rule of the Satavahana dynasty.

* Leather puppets are the hallmark of Andhra Pradesh art and crafts.

85. B

Sol. * The First Five-year Plan was launched in **1951**.

* It was based on the **Harrod–Domar model**.

* This five years plan's president was Jawaharlal Nehru and Gulzarilal Nanda was the vice-president.

* The motto of first five years plan was ' Development of agriculture' .

* The Harrod–Domar model was developed independently by Roy F. Harrod in 1939 and Evsey Domar in 1946.

86. C

Sol. * **Former Indian Space Research Organisation (ISRO) chairman A S Kiran Kumar** was conferred the distinction of Chevalier de l'Ordre national de la Légion d'Honneur by the Government of France on 2 May 2019.

* He was awarded by France's Ambassador to India Alexandre Ziegler on behalf of French President.

* The Legion of Honour (Ordre national de la Légion d'honneur) is the France's premier award.

* It was founded by Napoleon Bonaparte to recognize eminent accomplishments of service to France.

* AS Kiran Kumar was also awarded the Padma Shri, India's fourth highest civilian award in 2014.

87. C

- Sol. * The Basel Norms are norms for international banking regulations issued by the Basel Committee on Banking Supervision (BCBS).
* These norms aim to coordinate **banking regulations** around the world and strengthen the international banking system.
* The BCBS comprises 27 representatives from countries across the world, including India.

88. A

- Sol. * "Mrs Funnybones: She's Just Like You and a Lot Like Me" is a 2015 Indian non-fiction book.
* It has been written by Bollywood actress **Twinkle Khanna**.
* It was published by Penguin India in August 2015.

89. B

- Sol. * **Swaraj Kaushal** was the youngest ever Governor of an Indian state as of July 2020.
* He became the Governor of Mizoram at the age of 37.
* He served as the governor of Mizoram between 1990 and 1993.
* He was designated as a senior advocate by the Supreme Court of India at age 34.

90. C

- Sol. * **Pondicherry** was the capital of the French Colony in India.
* The foundation of Pondicherry was laid in 1673.
* The French East India Company was formed in 1664 by Colbert under state patronage during the reign of Louis XIV.
* The first French factory was established at Surat by Francois Caron in 1668 and second at Masulipatnam in 1669.

91. C

- Sol. * Mopin festival is celebrated by the inhabitants of **Arunachal Pradesh**.
* It is celebrated by the Galo tribe in the month of April.
* This festival is celebrated in order to drive away the evil spirits.
* Itanagar is the capital city of Arunachal Pradesh.
* Pema Khandu is the current chief minister of Arunachal Pradesh.
* B. D. Mishra is the current governor of Arunachal Pradesh.

92. C

Sol. * **Mount Saramati (12,552 ft)** is a mountain peak.

- * It forms a natural boundary between India and Myanmar.
- * It is located near the village of Thanamir in the Kiphire District of Nagaland.
- * It is popularly known as the **Crown of Nagaland**.
- * Mount Kalsubai- Maharashtra
- * Mount Doddabetta- Tamil Nadu
- * Mount Dhupgarh- Madhya Pradesh

93. D

Sol. * **Lavani** is a performing art from the state of Maharashtra.

- * It is a combination of traditional song and dance.
- * The origin of the folk form can be traced in the 16th century, but got its prominence in the Peshwa Rule.
- * Kalbelia- Rajasthan
- * Dandi Gair- Rajasthan

94. C

Sol. * **Pumice rocks** floats in water.

- * Pumice is pyroclastic igneous rock.
- * There are three kinds of rock: igneous, sedimentary, and metamorphic.
- * Igneous rocks are formed due to the cooling, solidification and crystallisation of hot and molten magma.
- * They are called the primary rocks.
- * The sedimentary rocks are formed due to the aggregation and compaction of sediments derived from older rocks, plants, animals and contain fossils of plants.
- * Metamorphic rocks are the changed form of igneous and sedimentary rocks.

95. C

Sol. * The **sulfuric acid** is used as an electrolyte in lead-acid batteries.

- * Sulfuric acid is a mineral acid with the chemical formula H₂SO₄.
- * It is also known as "oil of vitriol".
- * Hence, the option C is the correct answer.

96. A

Sol. * **Vinegar** typically contains 5–8% acetic acid by volume.

* Vinegar is commonly used in food preparation.

* Acetic acid is an acidic, colourless liquid and organic compound with the chemical formula **CH₃COOH**.

97. C

Sol. * 'Police and Public Order' are State subjects under the **seventh schedule** of the Constitution of India.

* The Seventh Schedule to the Constitution of India defines and specifies allocation of powers and functions between Union & States.

* It contains three lists; i.e., 1) Union List, 2) State List and 3) Concurrent List.

98. A

Sol. * **Former Indian Ambassador Navdeep Singh Suri** was conferred upon the **First-Class Order of Zayed II** award by UAE in 2019.

* He served as the Ambassador of India to the United Arab Emirates from December 2016 to September 2019.

* He joined the Indian Foreign Service in 1983.

* The Order of Zayed is the UAE's highest civil decoration named after Zayed bin Sultan Al Nahyan.

* Abu Dhabi is the capital city of United Arab Emirates (UAE).

* Dirham is the official currency of UAE.

99. B

Sol. * In 2019 Indian cueist **Pankaj Advani** became the first to hold the World, Asian and Indian titles simultaneously in five different years.

* He is a 23-time International Billiards and Snooker Federation (IBSF) world champion.

* He has won 16 billiards world titles, the IBSF World Billiards Championship on 15 occasions and the World Team Billiards Championship once.

* In snooker, he won the IBSF World Snooker Championship three times.

* He was awarded the Arjuna Award in 2004, Major Dhyan Chand Khel Ratna in 2006, Padma Shri in 2009 and Padma Bhushan in 2018.

100. B

Sol. * **Mihir Sen** was the first Indian swimmer to swim across the English Channel in 1958.
* He was also the Asia's first English Channel swimmer.
* He was a famous Indian long-distance swimmer and lawyer.
* He was the only man to swim the oceans of the five continents in one calendar year (1966).
These included the Palk Strait, Dardanelles, Bosphorus, Gibraltar, and the entire length of the Panama Canal.

Mock Test Solutions in Hindi

Questions

1. **Direction:** Select the most appropriate synonym of the given word.

ACHIEVE

A. Confuse B. Succeed
C. Prevent D. Avoid

2. **Direction:** Select the INCORRECTLY spelt word.

Indicashun B. Advertisement
C. Weather D. Excuse

3. **Direction:** Select the most appropriate synonym of the given word.

DETERMINED

A. Disillusioned B. Resolute
C. Inspired D. Intense

4. **Direction:** Select the most appropriate ANTONYM of the given word.

DISASTER

A. Safety B. Downfall
C. Collapse D. Success

5. **Direction:** Select the most appropriate option to substitute the underlined required, select 'No substitution required'.

Rohit had hardly stepped into the office than he was summon by his bo

A. No substitution required B. than he is sum
C. when he was summoned D. then he were s

6. Select the INCORRECTLY spelt word.

Guidence B. Quiet
Quandary D. Graphic

7. **Direction:** Select the most appropriate meaning of the given idiom.

Change hands

- A. Pass from one person to another
- B. Give away something you do not need
- C. Move from one hand to another
- D. Carry something in both hands

8. **Direction:** Identify the segment in the sentence which contains a grammatical error.

I'm sure that I found the place without any difficulty when I go next time.

- A. when I go next time
- B. without any difficulty
- C. I'm sure that
- D. I found the place

9. **Direction:** Select the most appropriate option to fill in the blank.

To get the _____ idea you need to read through the paragraph first.

- A. inside
- B. internal
- C. altogether
- D. overall

10. **Direction:** 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'.

Girish was able to drive down from Bengaluru in ten hours as there was very little traffic on the highway.

- A. as there was very less
- B. as there were very little
- C. as there was a very little
- D. No substitution required

11. **Direction:** Select the most appropriate option to fill in the blank.

It is the story of a king who was fond of being _____ lies.

- A. telling
- B. said
- C. told
- D. tell

12. **Direction:** Select the most appropriate one-word substitution for the given group of words.

Move suddenly and powerfully forward or upward

- A. Abound
- B. Thrive
- C. Surge
- D. Flourish

13. **Direction:** Select the most appropriate one-word substitution for the given group of words.

A grant or payment to support a student's education

- A. Fund
- B. Scholarship

- C. Sponsor D. Advance

14. **Direction:** Identify the segment in the sentence which contains a grammatical error.

You are fond of instrumental music, isn't it?

A. fond of B. You are
C. instrumental music D. isn't it

15. **Direction:** Identify the segment in the sentence which contains a grammatical error.

Investigations have been going on for a long time to produce an environment-friendly plastic that decay and become a part of the soil.

A. for a long time B. Investigations have been going on
C. that decay and become a part of the soil D. to produce an environment-friendly plastic

16. **Direction:** Select the most appropriate option to fill in the blank.

A recent survey on the subject of fear asked people to _____ to a list of common phobias.

A. review B. answer
C. reflect D. respond

17. **Direction:** 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'.

You can find several kind of birds in the Mysore Zoo, pelicans, flamingos, hornbills and egrets.

A. several kinds of birds B. several kind of bird
C. kind of several birds D. No substitution required

18. **Direction:** Select the most appropriate meaning of the given idiom.

Out of the question

A. Not possible at all B. Very badly written
C. Very difficult D. Not in the syllabus

19. **Direction:** Select the most appropriate ANTONYM of the given word.

HIGHLIGHT (v.)

A. Consider B. Describe
C. Recognise D. Downplay

20. **Direction:** Select the most appropriate option to fill in the blank.

It is mandatory for information about the _____ of the product to be given on the label.

- | | |
|----------------|-----------------|
| A. ingredients | B. requirements |
| C. essentials | D. materials |

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.

You must pace your work. What (1)_____ I mean? I'm glad you (2)_____ that question. We pace our work according (3)_____ the eight-hour workday. If you (4)_____ twelve hours of work in your in-box, for example, you must (5)_____ that work into the eight-hour day.

Select the most appropriate option to fill in blank No. 1

- | | |
|---------|---------|
| A. am | B. do |
| C. will | D. have |

22. Select the most appropriate option to fill in blank No. 2

- | | |
|----------|----------|
| A. say | B. find |
| C. spoke | D. asked |

23. Select the most appropriate option to fill in blank No. 3

- | | |
|-------|---------|
| A. by | B. with |
| C. to | D. from |

24. Select the most appropriate option to fill in blank No. 4

- | | |
|--------------|---------------|
| A. had | B. have |
| C. will have | D. are having |

25. Select the most appropriate option to fill in blank no. 5

- | | |
|-------------|-------------|
| A. compress | B. expand |
| C. stretch | D. increase |

26. निम्नलिखित में से कौन सी संख्या दी गई शरूँखला में प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगी?

57, 71, 88, 109, 135, ?

27. दो कथनों के बाद तीन निष्कर्ष संख्या I, II और III 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 कौवे, गौरैया हैं।

सभी बत्तख, गौरैया हैं।

निष्कर्षः-

- ।. कोई गैरेया, कौवा नहीं है ।

- ॥. कोई कौवा, बत्तख नहीं है ।

- ### III. कछ कौवे, बत्तख हैं।

- A. केवल निष्कर्ष | और || अनुसरण करता है
C. केवल निष्कर्ष | और ||| अनुसरण करता है

- B. केवल निष्कर्ष ॥ और ॥ अनुसरण करता है
D. या तो निष्कर्ष ॥ या ॥ अनुसरण करता है

28. एक निश्चित कूट भाषा में, 'MINT' को 'TNIM' के रूप में लिखा जाता है। तो उसी कूट भाषा में 'CORTEX' को किस प्रकार लिखा जाएगा?

29. उस विकल्प आकृति का चयन करें जिसमें दी गई आकृति (X) उसके भाग के रूप में अंतर्निहित है (रोटेशन की अनुमति नहीं है)।





30. उस विकल्प का चयन करें जो पैटर्न को पूरा करने के लिए नीचे दी गई आकृति में प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगा।



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

काठमांझु : नेपाल :: थिम्फु : ?

A. भूटान

C. चीन

B. श्रीलंका

D. मालदीव

32. दिए गए समीकरण को सही बनाने के लिए किन दो प्रतीकों को आपस में बदला जाना चाहिए?

$$4 + 5 - 16 \times 4 \div 2 = 1$$

A. + और -

C. ÷ और -

B. ÷ और ×

D. + और ×

33. पांच व्यक्ति एक कतार में टिकट खरीदने की प्रतीक्षा कर रहे हैं। दीप्ति, हर्ष के ठीक पीछे खड़ी है। विनीता, मृणाल के ठीक पहले है। सिंधु दीप्ति के ठीक बाद है। यदि विनीता कतार में खड़ी पहली व्यक्ति है, तो कतार में अंतिम व्यक्ति कौन है?

A. मृणाल

B. हर्ष

- C. दीप्ति D. सिंधु

34. आठ मिटर अर्थात् P, Q, R, S, T, U, V और W एक वृत्ताकार मेज की चारों ओर समान क्रम में समान दूरी पर दक्षिणावर्त दिशा में बैठे हैं। सभी का मुख मेज के केंद्र की ओर है। यदि U दक्षिण में बैठा है, तो उत्तर-पूर्व दिशा में कौन बैठा है?

A. R B. T
C. Q D. P

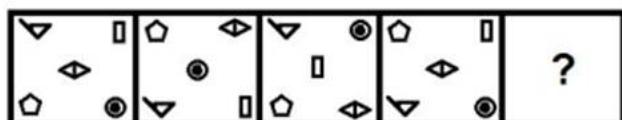
35. दिए गए संयोजन की सही दर्पण छवि का चयन करें जब दर्पण को रेखा MN पर स्थापित किया जाता है जैसा कि नीचे दिखाया गया है।

M
F 3 A P 5 |
N

- A. F3AP6
C. F3AP6

- D. E 3 A P 5

36. उस आकृति का चयन करें जो निम्नलिखित आकृति शरूँखला में प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगी।



- A square frame containing four geometric shapes: a downward-pointing triangle in the top-left, an upward-pointing triangle in the top-right, a pentagon in the bottom-left, and a rectangle in the bottom-right.

-

-

- D.

37. निम्नलिखित में से कौन सा अक्षर-समूह दी गई शृंखला में प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगा?

KTY, NXD, QBI, TEN, ?

- ## A. WLT

- B. WJS

- C. VJS

- D. WKR

15	4	161
12	3	117
16	5	?

- A. 120

- B. 131

- C. 111

- D. 143

40. वर्गों के उस समच्चय का चयन करें जिसके बीच का संबंध निम्नलिखित वेन आरेख द्वारा सर्वोत्तम रूप से दर्शाया गया है।



- #### A. भोजन, अनाज, मक्का

- B. पस्तकें, रसोई, कारें

- C. वाहन, पशु, बसें

- D. पश्, ध्रुवीय भालू, बर्फ

41. दिए गए समीकरण को सही बनाने के लिए किन दो संख्याओं को आपस में प्रतिस्थापित किया जाना चाहिए?

$$81 + 45 \div 3 - 18 \times 9 = 32$$

- A. 81 और 18

- B. 45 और 18

- C. 3 और 9

- D. 45 और 9

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

कथनः

कोई दुकान, रेस्टोरेंट नहीं है।

सभी रेस्टोरेंट, पार्क हैं।

निष्कर्षः

I. कुछ पार्क, रेस्टोरेंट हैं।

II. कोई रेस्टोरेंट, दुकान नहीं है।

A. न तो निष्कर्ष | न ही || अनुसरण करता है

C. केवल निष्कर्ष | अनुसरण करता है

B. केवल निष्कर्ष || अनुसरण करता है

D. दोनों निष्कर्ष | और || अनुसरण करते हैं

43. यदि $G > T, H = B, T > H, M = T$ और $B > K$ हैं, तो निम्न में से कौन सी अभिव्यक्ति सही है?

A. $G = T$

B. $K < H$

C. $B > T$

D. $G < M$

44. 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।

NORWAY : YWRONA :: PORTUGAL : ?

A. URTOPPLGA

B. UTPRLOGA

C. ATRPOGLU

D. UTRPOLGA

45. एक निश्चित कूट भाषा में, 'FLOOD' को '25' के रूप में लिखा जाता है, और 'HINT' को '15' के रूप में लिखा जाता है। तो उसी कूट भाषा में 'FAST' को किस प्रकार लिखा जाएगा?

A. 18

B. 64

C. 78

D. 60

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

पुस्तकें : स्कूल बैग :: गैस चूल्हा : ?

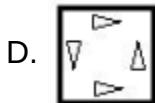
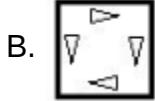
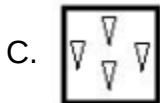
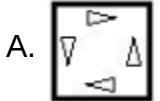
A. रसोई

B. बावची

C. गैस सिलिन्डर

D. भोजन

47. एक कागज को नीचे दी गई आकृतियों में दर्शाए अनुसार मोड़ा और काटा जाता है। कागज को खोले जाने पर यह कैसा दिखाई देगा?



48. एक निश्चित कूट भाषा में 'LOAN' को '15122613' के रूप में लिखा जाता है। तो उसी कूट भाषा में 'DEUCE' को किस प्रकार लिखा जाएगा?

A. 232262422

B. 232292322

C. 202272422

D. 232162421

49. निम्नलिखित में से कौन सी संख्या दी गई शृंखला में प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगी?

17, 17, 34, 102, 408, ?

A. 1620

B. 2440

C. 1550

D. 2040

50. उस विकल्प का चयन करें जो तीसरी संख्या से उसी प्रकार संबंधित है जिस प्रकार दूसरी संख्या पहली संख्या से संबंधित है।

7: 53 :: 9 : ?

A. 99

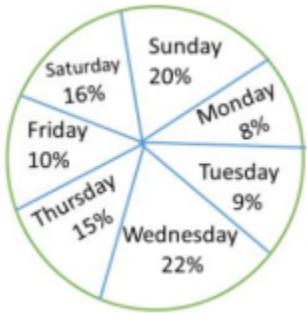
B. 101

C. 112

D. 85

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

दिया गया चार्ट सप्ताह के प्रत्येक दिन बेचे जाने वाले वेनिला केक और चॉकलेट केक की कुल संख्या का प्रतिशत-वार वितरण दर्शाता है।
एक सप्ताह में बेचे गए केक की कुल संख्या = 10500



- यदि बुधवार को बेचे गए वेनिला केक और चॉकलेट केक की बिक्री का अनुपात 13:8 है, तो उस दिन कितने वेनिला केक बेचे गए?

 - 1450
 - 1340
 - 1420
 - 1430

52. शुक्रवार को बेचे गए वेनिला केक का चॉकलेट केक से अनुपात 4:3 है। यदि एक वेनिला केक की कीमत 8 रुपये है और एक चॉकलेट केक की कीमत 7 रुपये है, तो शुक्रवार को सभी वेनिला केक और चॉकलेट केक को बेचकर अर्जित की गई कुल राशि कितनी होगी?

 - 6,950 रुपये
 - 7,950 रुपये
 - 8,000 रुपये
 - 7,500 रुपये

53. यदि गुरुवार और रविवार को बेचे गए वेनिला केक की औसत संख्या 1020 है और गुरुवार को बेचे गए चॉकलेट केक की संख्या रविवार को बेचे गए चॉकलेट केक की संख्या से 245 अधिक है, तो गुरुवार को बिकने वाले चॉकलेट केक की संख्या क्या होगी?

 - 950
 - 840
 - 940
 - 850

54. यदि एक निश्चित आँकड़ों के माध्य और माध्यिका का अनुपात 4:5 है तो उसके बहुलक और माध्य का अनुपात कितना है?

 - 7 : 5
 - 6 : 5
 - 8 : 5
 - 7 : 4

55. एक वस्तु को 14,000 रुपये में खरीदा गया और उसके क्रय मूल्य के $\frac{4}{7}$ पर बेचा गया। हानि प्रतिशत कितना है?

 - $42\frac{3}{7}\%$
 - $42\frac{5}{7}\%$
 - $42\frac{6}{7}\%$
 - $41\frac{6}{7}\%$

56. चार क्रमागत सम संख्याओं का औसत 27 है। सबसे छोटी संख्या क्या है?

 - 20
 - 26
 - 24
 - 22

57. A एक कार्य को $7\frac{1}{2}$ दिनों में कर सकता है, जबकि B उसी कार्य को $10\frac{1}{2}$ दिनों में कर सकता है। यदि वे एक साथ कार्य करते हैं, तो वही कार्य कितने दिनों में पूरा होगा?

A. $4\frac{3}{8}$ दिन

B. 4 दिन

C. $4\frac{1}{2}$ दिनD. $4\frac{1}{8}$ दिन58. यदि एक निश्चित राशि $10\frac{1}{2}\%$ वर्ष की दर से साधारण ब्याज पर 5 वर्षों में 27,450 रुपये हो जाती है, तो राशि कितनी है?

A. 18,000 रुपये

B. 16,500 रुपये

C. 16,000 रुपये

D. 17,000 रुपये

59. $5 - 5 \div 5 \times 5 + (7 \div 6 \text{ का } 7) \times 6 - \left(3\frac{2}{3} \div \frac{11}{30} \text{ of } \frac{2}{3} \right) \div 5$ का मान कितना है?

A. -1

B. 0

C. 1

D. -2

60. $12\frac{1}{2}\%$ की हानि $11\frac{1}{5}\%$ के लाभ में परिवर्तित हो जाती है जब विक्रय मूल्य में 118.5 रुपये की वृद्धि की जाती है। वस्तु का क्रय मूल्य कितना है?

A. 550 रुपये

B. 600 रुपये

C. 800 रुपये

D. 500 रुपये

61. विनीत, विनोद से 8 वर्ष छोटा है। यदि 4 वर्ष पहले उनकी आयु 1:2 के अनुपात में थी, तो विनोद की वर्तमान आयु कितनी है?

A. 28 वर्ष

B. 22 वर्ष

C. 20 वर्ष

D. 25 वर्ष

62. ट्रेन की औसत गति कार की औसत गति का 160% है। कार 16 घंटे में 880 किमी की दूरी तय करती है। 484 किमी की दूरी तय करने में ट्रेन द्वारा लिया गया समय कितना है?

A. $7\frac{1}{2}$ घंटेB. $4\frac{1}{2}$ घंटेC. $5\frac{1}{2}$ घंटे

D. 5 घंटे

63. यदि किसी वर्ग की भुजा में 40% की वृद्धि कर दी जाए, तो उसके क्षेत्रफल में कितने प्रतिशत की वृद्धि होगी?

A. 90%

B. 96%

C. 92%

D. 86%

64. एक बेलन के वक्र पृष्ठीय क्षेत्रफल और कुल पृष्ठीय क्षेत्रफल का अनुपात 4:7 है। यदि इसका आयतन 4851 सेमी³ है तो इसकी त्रिज्या कितनी है? $(\pi = \frac{22}{7} \text{ लें})$

- C. 6% D. 8%

72. एक वस्तु की कीमत में $12\frac{1}{2}\%$ की कमी एक व्यक्ति को 280 रुपये में 2.5 किलो अधिक खरीदने में सक्षम बनाती है। वस्तु का घटा हुआ मूल्य प्रति किग्रा क्या है?

A. 13 रुपये B. 15 रुपये
C. 12 रुपये D. 14 रुपये

73. संख्या A का $\frac{11}{5}$ संख्या B का 22% है। संख्या B, तीसरी संख्या C के 2.5% के बराबर है। यदि संख्या C का मान 5500 है, तो A के 40% और B के 20% का योग कितना है?

A. 30 B. 33
C. 32 D. 36

74. 56 सेमी व्यास के एक वृत्ताकार तार को एक आयत के आकार में मोड़ा गया है जिसकी भुजाएँ 7: 4 के अनुपात में हैं। आयत द्वारा घेरा गया क्षेत्रफल कितना है? ($\pi = \frac{22}{7}$ लें)

A. 1842 सेमी² B. 1792 सेमी²
C. 1684 सेमी² D. 1782 सेमी²

75. प्रतिवर्ष एक निश्चित दर प्रतिशत पर x राशि 3 वर्षों में 27,900 रुपये और 6 वर्षों में 41,850 रुपये हो जाती है जब ब्याज वार्षिक रूप से संयोजित होता है। x का मान क्या है?

A. 18,400 B. 17,600
C. 17,800 D. 18,600

76. सितंबर 2020 तक भारत के किस राज्य में सबसे कम जिले थे?

A. गोवा B. नागालैण्ड
C. अरुणाचल प्रदेश D. सिक्किम

77. लखनऊ समझौते पर _____ में हस्ताक्षर किए गए थे।

A. 1920 B. 1922
C. 1916 D. 1930

78. निम्नलिखित में से वह कौन सा स्वतंत्रता सेनानी था जिसके डिजाइन के आधार पर वर्तमान भारतीय राष्ट्रीय ध्वज को डिजाइन किया गया?

A. टंगुदूरी प्रकाशम B. पिंगली वेंकैया
C. बादल गुप्ता D. तिरोत सिंग

79. 'भुशी झील' भारत के किस राज्य में स्थित है?

A. पंजाब B. राजस्थान

- C. गुजरात

D. महाराष्ट्र

80. कौन सी ग्रंथि कोर्टिसोल का उत्पादन करती है जिसे अक्सर मनुष्यों में 'तनाव हार्मोन' (स्ट्रेस हार्मोन) के रूप में जाना जाता है?

A. थाइरॉयड ग्रंथि

B. पीयूष ग्रंथि

C. अधिवृक्क ग्रंथि

D. पीनियल ग्रंथि

81. ब्राह्मणी, खरकई और सुवर्णरेखा नदियों का स्रोत भारत का कौन सा राज्य है?

A. मध्य प्रदेश

B. बिहार

C. झारखण्ड

D. उत्तर प्रदेश

82. राष्ट्रीय कृषि और ग्रामीण विकास बैंक (नाबाड़) की स्थापना किस वर्ष हुई थी?

A. 1952

B. 1962

C. 1982

D. 1972

83. निम्नलिखित में से किसे ट्यूमर के बजाय प्रतिरक्षा प्रणाली का इलाज करके कैंसर पर हमला करने का एक प्रभावी नया तरीका शुरू करने के लिए फिजियोलॉजी या मेडिसिन में 2018 का नोबेल पुरस्कार मिला?

A. जेफरी हॉल

B. माइकल रोसबैश

C. माइकल डब्ल्यू यंग

D. जेम्स पी एलिसन

84. 'थोलू बोम्मलता' (चमड़े की छाया वाला कठपुतली शो) _____ राज्य का पारंपरिक कला रूप है।

A. कर्नाटक

B. केरल

C. तमिलनाडु

D. आंध्र प्रदेश

85. 1951 में शुरू की गई भारत की पहली पंचवर्षीय योजना कृषि उत्पादन को बढ़ावा देने के लिए कृषि और सिंचाई पर ध्यान केंद्रित करने हेतु निम्नलिखित में से किस आर्थिक मॉडल पर आधारित थी?

A. हेक्षर-ओहलिन मॉडल

B. हैरोड-डोमर मॉडल

C. मुंडेल-फ्लेमिंग मॉडल

D. कॉब-डगलस मॉडल

86. मई 2019 में फ्रांस सरकार द्वारा किस भारतीय वैज्ञानिक को शेवेलियर डे ल'ऑर्डर नेशनल डे ला लेगियन डी'होनूर (Chevalier de l'Ordre national de la Légion d'Honneur) का गौरव प्रदान किया गया?

A. जी.माधवन नायर

B. तपन मिश्रा

C. ए.एस किरण कुमार

D. माइलस्वामी अन्नादुरै

87. वित्तीय प्रणाली के किस पहलू पर बेसल मानदंड ध्यान केंद्रित करते हैं?

A. शेयर बाजार

B. बीमा

C. बैंकिंग

D. कमोडिटी बाजार

88. 'मिसेज फनीबोन्स: शीज जस्ट लाइक यू एंड ए लॉट लाइक मी' पुस्तक के लेखक कौन से भारतीय अभिनेता हैं?

A. ट्रिवंकल खन्ना

B. सोनाली बेंद्रे

C. माधुरी दीक्षित

D. ऐश्वर्या राय

89. निम्नलिखित में से कौन जुलाई 2020 तक किसी भारतीय राज्य के अब तक का सबसे कम आयु के राज्यपाल थे?
- A. जगदीश मुख्ती
B. स्वराज कौशल
C. शारदा मुखर्जी
D. मार्गरेट अल्वा
90. भारत में कौन सा शहर फ्रांसीसी उपनिवेश की राजधानी थी?
- A. कोचीन
B. तूतीकोरिन
C. पांडिचेरी
D. पणजी
91. बुरी आत्माओं को भगाने का त्योहार 'मोपिन' किस राज्य में मनाया जाता है?
- A. केरल
B. राजस्थान
C. अरुणाचल प्रदेश
D. छत्तीसगढ़
92. निम्नलिखित में से वह कौन सी पर्वत चोटी है, जो भारतीय राज्य नागार्लेंड की पहाड़ी सीमा और म्यांमार के सागिंग क्षेत्र में आसपास की चोटियों से ऊपर उठती है?
- A. कलसूबाई पर्वत
B. डोड्हाबेटा पर्वत
C. सरमती पर्वत
D. धूपगढ़ पर्वत
93. निम्नलिखित में से कौन सा महाराष्ट्र राज्य की एक प्रदर्शन कला है?
- A. कालबेलिया
B. खेलेरान
C. दांडी गैर
D. लावणी
94. निम्नलिखित में से कौन सी चट्टान पानी में तैरती है?
- A. ग्रेनाइट
B. औन्सीडियन
C. पुमाइस
D. स्लेट
95. निम्नलिखित में से किस घरेलू वस्तु में सल्फ्यूरिक एसिड होता है?
- A. टूथपेस्ट
B. सिरका
C. बैटरी
D. मक्खन
96. पानी में एसिटिक एसिड का पांच से आठ प्रतिशत विलयन, _____ के रूप में जाना जाता है।
- A. सिरका
B. चूना
C. अल्कोहल
D. अनबुझा चूना
97. 'पुलिस और लोक व्यवस्था' भारत के संविधान की _____ अनुसूची के तहत राज्य के विषय हैं।
- A. 5वीं
B. 9वीं
C. 7वीं
D. 12वीं
98. 2019 में यूर्इ द्वारा किस भारतीय राजनयिक को प्रथम श्रेणी के ऑर्डर ऑफ जायद || पुरस्कार से सम्मानित किया गया?
- A. नवदीप सिंह सूरी
B. तरनजीत सिंह संधू
C. जावेद अशरफ
D. रवीश कुमार

Solutions

1. B

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

Achieve = to succeed in reaching a particular goal, status or standard, especially by making an effort for a long time.

E.g.: She has worked hard to **achieve** her goal.

Confuse = to make someone unable to think clearly or understand something.

Succeed = to achieve something that you have been trying to do or get.

E.g.: He **succeeded** in getting a place at dance academy.

Prevent = to stop someone from doing something.

Avoid = to prevent something bad from happening.

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

2. A

Sol. **Option A has incorrectly spelt word.**

“Indication” is the correct spelling of the incorrect word “Indicashun”. It means a remark or sign that shows that something is happening or what someone is thinking or feeling.

The meaning of other words are:

Advertisement: a notice, picture, or film telling people about a product, job or service.

Weather: the condition of atmosphere at a particular place and time. Excuse: a reason, either true or invented, that you give to explain or defend your behavior.

3. B

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

Determined = having made a definite decision to do something and not letting anyone prevent you.

E.g.: The opposition to her plan made her more **determined** than ever.

Disillusioned = disappointed because the person you admired or the idea you believed to be good and true now seems without value.

Resolute = strong and determined

E.g.: His voice sounded calm and **resolute**.

Inspired = have excellent qualities or abilities.

Intense = very great; very strong.

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

4. D

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

Disaster = a terrible situation or event

E.g.: This year's lack of rain could spell disaster for the region.

Safety = the state of being safe and protected from danger or harm.

Downfall = the loss of a person's money, power, social position etc.

Collapse = a sudden failure of something.

Success = the fact that you have achieved something that you want and have been trying to do or get.

E.g.: Their plan will probably meet with little **success**.

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

5. C

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

- Underlined part needs correction in conjunction.
- To emphasize the idea of one thing coming immediately after another, we use conjunction: “Hardly....when” and “No sooner....than”.

For example:

I had **hardly** started work **when** I felt a pain in my back.

He had **no sooner** sat down **than** the phone rang.

- In the given sentence, we have erroneously used conjunction “than” with “Hardly”. It is used with “No sooner”. Thus, conjunction “when” should be used.
- Also, actual doer of verb “summon” is not the subject in the given sentence. This validates that sentence is written in passive voice. So, correct structure of passive verb should be written i.e. “was + third form of verb (i.e. summoned)”. Since, “he” is a singular noun so it will take a singular helping verb (i.e. “was”) as per the subject verb agreement.

- Hence, “**when he was summoned**” is the correct substitution.

Thus, the correct sentence will be:

Rohit had hardly stepped into the office when he was summoned by his boss.

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

6. A

Sol. **Option A has incorrectly spelt word.**

“Guidance” is the correct spelling of the incorrect word “Guidence”. It means help or advice that is given to someone, especially by someone older or with more experience.

The meaning of other words are:

Quiet: making very little noise.

Quandary: the state of not being able to decide what to do in a difficult situation.

Graphic: connected with drawings and design.

7. A

Sol. The idiom **“Change hands”** means to pass to a different owner.

Example: Shares worth one billion euros **changed hands** during a day of hectic trading.

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

8. D

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

Tense.

- We use “*will* + base form of verb” in the future tense.

For example:

We **will know** our exam results next week.

Will you still **love** me tomorrow?

- The second form of verb is used in the simple past tense.

For example:

Police **found** several guns in an abandoned car.

She **found** the whole concept faintly absurd.

• In the given sentence, the time word “next time” necessitates the use of the future tense in the sentence. But we have erroneously used the second form of verb “found” i.e. past tense. Thus, verb of future tense i.e. “will find” should be used in place of “found”.

- Hence, “**will find**” is the correct substitution.

Thus, the correct sentence will be:

I'm sure that I will find the place without any difficulty when I go next time.

9. D

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

- *Inside* = (adjective) forming the inner part of something.
- *Internal* = (adjective) connected with the inside of something.
- *Altogether* = (adverb) completely.

- *Overall* = (adjective) including all the things or people that are involved in a particular situation.

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

- “*Inside*” as an adjective means forming the inner part of something. Thus, option A is incorrect.
- “*Internal*” as an adjective is related to the inside of something. Thus, option B is incorrect.
- “*Altogether*” as an adverb means completely. Thus, option C is incorrect.
- “*Overall*” as an adjective means including all the things that are involved in a particular situation. Here in the given sentence, it is used to qualify the noun “idea”. It is used to mention that one needs to read through the paragraph in order to grasp all the aspects of an idea conveyed in the paragraph.

Thus, “*Overall*” becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

To get the overall idea you need to read through the paragraph first.

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

10. D

Sol. **The underlined part of the sentence is grammatically correct.**

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

11. C

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

- *Telling* = is the continuous form of verb “tell”.
- *Said* = is the second form of verb “say”.
- *Told* = is the second/third form of verb “tell”.
- *Tell* = means to give information to someone by speaking or writing.

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

- “*Telling*” is the continuous form of verb “tell”. But here we need a passive form of verb. Thus, option A is incorrect.
- “*Said*” is the second form of verb “say”. It means to speak something using words. Thus, option B is incorrect.
- “*Tell*” as a verb means to give information to someone by speaking or writing. Thus, option D is incorrect.
- “*Told*” is the second/third form of verb “tell”. Here in the given sentence, it is used as part of the passive form of gerund i.e. “being + third form of verb”.

Thus, “*Told*” becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

It is the story of a king who was fond of being told lies.

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

12. C

Sol. Abound: to exist in great numbers.

Thrive: to become, and continue to be, successful, strong, healthy etc.

Surge: to move quickly and with force in a particular direction.

Flourish: to develop quickly and become successful or common.

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

13. B

Sol. Fund: an amount of money that has been saved or has been made available for a particular purpose.

Scholarship: an amount of money given to someone by an organisation to help pay for their education.

Sponsor: a person or company that pays for a radio or television programme usually in return for advertising.

Advance: progress or a development in a particular activity or area of understanding.

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

14. D

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

- Question tags are written according to the subject and auxiliary of the main clause. If the main clause is in positive sense then a negative tag is used.

For example:

He is an honest and forthright person, **isn't he?**

- In the given sentence, we have used a negative question tag when main clause is written in positive sense. But helping verb (i.e. "is") and pronoun (i.e. "It") are written incorrectly in the structure of question tag. "You" is a subject in the main clause, so this should be the subject in the question tag. Also, the helping verb should be plural (i.e. "are") in accordance with this plural subject ("You").
- Hence, "**aren't you**" is the correct substitution.

Thus, the correct sentence will be:

You are fond of instrumental music, aren't you?

15. C

Sol. The sentence is grammatically incorrect, and the error lies in **option C**. The error is related to **Verb**.

- Verbs used after relative pronoun "that" are written according to the antecedent i.e. noun/pronoun written just before "that".

For example:

States need to understand how to access the federal **resources** that **are** available.

- In the given sentence, we have "plastic" as an antecedent that takes singular verb. But we have erroneously used plural verbs viz. "decay" and "become". Thus, singular verbs "decays" and "becomes" should be used.

- Hence, "**that decays and becomes a part of the soil**" is the correct substitution.

Thus, the correct sentence will be:

Investigations have been going on for a long time to produce an environment-friendly plastic that decays and becomes a part of the soil.

16. D

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

- *Review* = (verb) to write a report of a book, play, film etc. in which you give your opinion of it.
- *Answer* = (verb) to say, write or do something as a reaction to a question or situation.
- *Reflect* = (verb) to show the image of someone/something on the surface of something such as mirror, water or glass.
- *Respond* = (verb) to give a spoken or written answer to someone/something.

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

- “*Review*” as a verb is used in the context of writing your opinion about a book, play, film etc. Thus, option A is incorrect.
- “*Answer*” as a verb means to say, write or do something as a reaction to a question or situation. Thus, option B is incorrect.
- “*Reflect*” as a verb means to show the image of someone/something on the surface of something such as mirror, water or glass. Thus, option C is incorrect.
- “*Respond*” as a verb means to give a spoken or written answer to someone/something. Here in the given sentence, it is used to show that in a survey on fear, people were asked to give spoken or written answer to a list of common phobias.

Thus, “*Respond*” becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

A recent survey on the subject of fear asked people to respond to a list of common phobias.

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

17. A

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

- Underlined part needs correction in adjective.
- “Several” as a quantifier in a noun phrase is used to show “more than two but not very many”. It takes plural form of noun after it.

For example:

There are **several** large **stores** in London where you can buy practically anything.

He has written **several books** about India.

- In the given sentence, we have a noun phrase “several kind of birds”. “Several” is used like a quantifier to show that there are more than two kinds/types of birds in the zoo. This plurality in the usage of “several” as a quantifier necessitates the use of plural form of “kind” i.e. “kinds”.
- Hence, “**several kinds of birds**” is the correct substitution.

Thus, the correct sentence will be:

You can find several kinds of birds in the Mysore Zoo, pelicans, flamingos, hornbills and egrets.

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

18. A

Sol. The idiom “**Out of the question**” means impossible or not allowed and therefore not worth discussing.

Example: Another trip abroad this year is **out of the question**.

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

19. D

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

Highlight = (verb) to emphasize something, especially so that people give it more attention.

E.g.: The report **highlighted** the importance of exercise to maintain a healthy diet.

Consider = to think about something carefully.

Describe = to say what someone/something is like.

Recognise = to know who someone is or what something is when you see or hear them or it.

Downplay = to try to make something seem less important than it really is.

E.g.: The coach is **downplaying** the team's poor performance.

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

20. A

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

- *Ingredients* = (noun) things from which something is made, especially one of the foods that are used together to make a particular dish.

- *Requirements* = (noun) something that you need or want.

- *Essentials* = (noun) something that is needed in a particular situation.
- *Materials* = (noun) a substance that things can be made from.

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

- “*Requirements*” as noun means something that you need or want. Thus, option B is incorrect.
- “*Essentials*” as noun means something that is needed in a particular situation. Thus, option C is incorrect.
- “*Materials*” as noun means a substance that things can be made from. Thus, option D is incorrect.
- “*Ingredients*” as noun means things from which something is made, especially one of the foods that are used together to make a particular dish. Here in the given sentence, it is used to show that it is compulsory to list the things on the label from which the product is made.

Thus, “*Ingredients*” becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

It is mandatory for information about the ingredients of the product to be given on the label.

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

21. B

Sol. The given passage is about “**How to pace your work?**”.

“Am” is a helping verb which is used when “I” is the subject. It is used in present tense. Thus, option A is wrong.

“Will” is a modal verb which is used to show the possibilities. Thus, option C is wrong.

“Have” is a plural helping verb that is used to show the perfect aspect of a verb. As a main verb it shows the possession. Thus, option D is wrong.

“Do” is the plural verb form of “Do” verb. It is used in the present tense. Here in the given sentence, it is used for plural subject i.e. “I”. It is used in interrogative sentence to ask about what does the speaker meant when he/she says, “You must pace your work”.

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

22. D

Sol. The given passage is about **“How to pace your work?”**.

“Say” as a verb means to speak something using words. Thus, option A is wrong.

“Find” as a verb means to discover someone/something unexpectedly or by chance. Thus, option B is wrong.

“Spoke” is the second form of verb “speak”. It means to talk to someone about something. Thus, option C is wrong.

“Asked” as a verb means to say or write something in the form of a question, in order to get information. In the given sentence, it is used to mention that listener (i.e. “You”) questioned the speaker in order to get information about “pacing up the work”.

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

23. C

Sol. The given passage is about **“How to pace your work?”**.

“By” as a preposition is used for showing how or in what way something is done. Thus, option A is wrong.

“With” as a preposition is used to show “in the company or presence of someone/something”. Thus, option B is wrong.

“From” as a preposition is used to show where something starts. Thus, option D is wrong.

“According to” as a preposition is used to show “as stated or reported by someone/something”. In the given sentence, it is used to state that work should be paced as per the eight-hour workday.

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

24. B

Sol. The given passage is about **“How to pace your work?”**.

“Had” as a verb is used in past tense to show the possession. Thus, option A is wrong.

“Will have” is a part of structure of verb used in future perfect tense. Thus, option C is wrong.

“Are having” is a structure of continuous verb used in present continuous tense. Thus, option D is wrong.

“Have” as a verb is used in present tense to show the possession. Here in the given sentence, it is used to show possession of “twelve hours of work in in-box” in the conditional clause initiated by conjunction “If”.

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

25. A

Sol. The given passage is about **“How to pace your work?”**.

“Expand” as a verb means to become greater in size, number or importance. Thus, option B is wrong.

“Stretch” as a verb means to make something longer, wider by pulling it. Thus, option C is wrong.

“Increase” as a verb means to become greater in amount, number, value, etc. Thus, option D is wrong.

“Compress” as a verb means to reduce something and fit it into a smaller space or amount of time. In the given sentence, it is used to mention that “twelve hours of work” should be done in such a way that it becomes an “eight-hour day”.

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

26. A

Sol. यहां तक कि संख्या के मध्य का अंतर 3,4,5,6 से बढ़ता रहता है और यह निरंतर जारी रहता है -

$$71+14=85$$

$$71+17=88$$

$$88+21=109$$

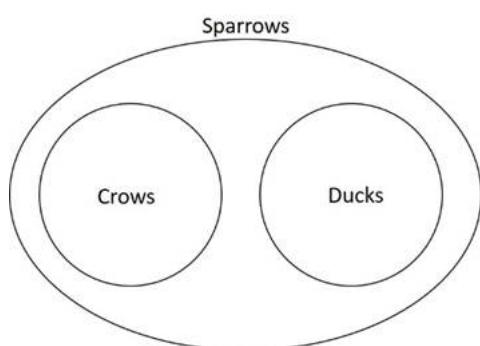
$$109+26=135$$

$$135+32=167$$

इसलिए, विकल्प A सही उत्तर है।

27. D

Sol. न्यूनतम वेन आरेख इस प्रकार है –



निष्कर्ष:

- I. कोई गौरैया, कौवा नहीं है – गलत है, चूंकि सभी कौवे, गौरैया होते हैं इसलिए कुछ गौरैया, कौवे हैं।
- II. कोई कौवा, बत्तख नहीं है – सही हो सकता है या गलत हो सकता है क्योंकि उनके बीच कोई सीधा संबंध नहीं है।
- III. कुछ कौवे, बत्तख हैं – सही हो सकता है या गलत हो सकता है यदि यह सही है तो निष्कर्ष ॥ गलत है।
तो, या तो निष्कर्ष ॥ या ॥ अनुसरण करता है।

इसलिए, विकल्प D सही उत्तर है।

28. B

Sol. इसके बाद तर्क यह है कि हम शब्द को उल्टे क्रम में लिखते हैं।

←—MINT =TNIM

←—CORTEX= XETROC

इसलिए, विकल्प B सही उत्तर है।

29. B

Sol. दी गई आकृति (X) विकल्प B में अंतर्निहित है जैसा कि नीचे दर्शाया गया है -



इसलिए, विकल्प B सही उत्तर है।

30. A

Sol. नीचे दी गई आकृति दी गई आकृति में प्रश्नवाचक चिन्ह को प्रतिस्थापित करेगी



इसलिए, विकल्प A सही उत्तर है।

31. A

Sol. काठमांडू : नेपाल :: थिम्फु : भूटान

काठमांडू नेपाल की राजधानी है उसी प्रकार थिम्फु भूटान की राजधानी है।

इसलिए, विकल्प A सही उत्तर है।

32. B

Sol. $4 + 5 - 16 \times 4 \div 2 = 1$

\div और \times को प्रतिस्थापित करने पर, हमें पराप्त होता है,

$$4 + 5 - 16 \div 4 \times 2 =$$

BODMAS नियम लागू करने पर

$$4+5-4\times2$$

$$9-8$$

$$=1$$

इसलिए, विकल्प B सही उत्तर है।

33. D

Sol. प्रश्न के अनुसार व्यक्तियों की व्यवस्था इस प्रकार है –

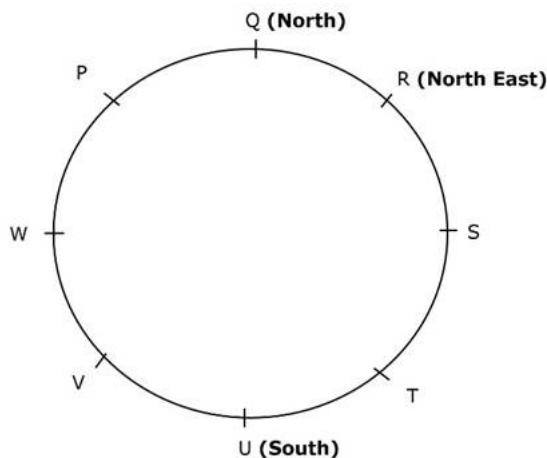
विनीता	मृणाल	हर्ष	दीप्ति	सिंधु
--------	-------	------	--------	-------

तो, सिंधु कतार में अंतिम व्यक्ति है।

इसलिए, विकल्प D सही उत्तर है।

34. A

Sol. प्रश्न के अनुसार चित्रात्मक व्यवस्था नीचे दी गई है :

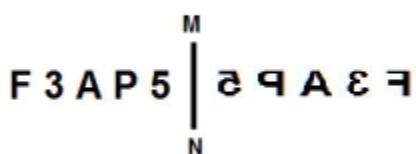


तो, R उत्तर पूर्व दिशा में बैठा है।

इसलिए, विकल्प A सही उत्तर है।

35. B

Sol. सही दर्पण प्रतिबिम्ब इस प्रकार है -

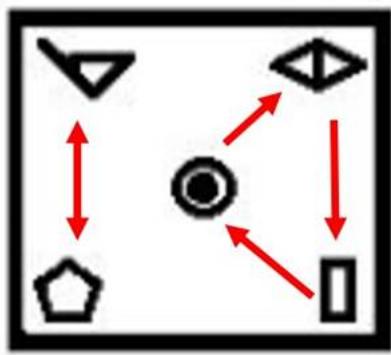


इसलिए, विकल्प B सही उत्तर है।

36. A

Sol. आंतरिक आकृतियों की गति इस प्रकार है -

इस प्रकार, अगली आकृति होगी-



इसलिए, विकल्प A सही उत्तर है।

37. B

Sol. तर्क इस प्रकार है—

K+3=N	N+3=Q	Q+3=T	T+3=W
T+4=X	X+4=B	B+4=E	E+4=J
Y+5=D	D+5=I	I+5=N	N+5=S

इसलिए, विकल्प B सही उत्तर है।

38. C

Sol. यहां दिए गए तर्क को नीचे दी गई तालिका में समझाया गया है -

M +1=N	P+1=Q	F+1=G
A +0=A	O+0=O	I+0=I
R +1=S	R+1=S	N+1=O
K +1=L	T+1=U	G+1=H
S +1=T		E+1=E
		R+1=S

इसलिए, विकल्प C सही उत्तर है।

39. B

Sol. यहां दिए गए तर्क को नीचे समझाया गया है:

$$\text{तीसरा पद} = (\text{पहला पद})^2 - (\text{तीसरा पद})^3$$

$$161 = 15^2 - 4^3 = 225 - 64 = 161$$

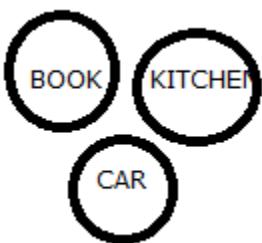
$$117 = 12^2 - 3^3 = 144 - 27 = 117$$

इसी प्रकार, $? = 16^2 - 5^3 = 256 - 125 = 131$

इसलिए, विकल्प B सही उत्तर है।

40. B

Sol.



पुस्तक, रसोई और कार तीन अलग-अलग संस्थाएं हैं।

इसलिए, विकल्प B सही उत्तर है।

41. C

Sol. $81 + 45 \div 3 - 18 \times 9 = 32$

3 और 9 को प्रतिस्थापित करने पर

$$81 + 45 \div 9 - 18 \times 3 = 32$$

BODMAS नियम लागू करने पर

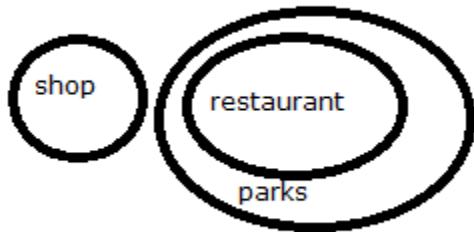
$$81+5-54=32$$

$$86-54=32$$

इसलिए, विकल्प C सही उत्तर है।

42. D

Sol.



निष्कर्षः

- I. कुछ पार्क, रेस्टोरेंट हैं – सही है, क्योंकि सभी रेस्टोरेंट, पार्क हैं।
- II. कोई रेस्टोरेंट, दुकान नहीं है – सही है, क्योंकि कोई दुकान, रेस्टोरेंट नहीं है।
तो, दोनों निष्कर्ष सही हैं।

इसलिए, विकल्प D सही उत्तर है।

43. B

Sol. दिए गए कथन के अनुसार व्यवस्था नीचे दी गई है -

$$G > T = M > H = B > K$$

$G = T$, गलत है क्योंकि $G > T$

$K < H$, सही है क्योंकि $H = B$ और $B > K$

इसलिए, विकल्प B सही उत्तर है।

44. D

Sol. यहां तर्क यह है कि हम अक्षरों को अवरोही क्रम में लिखेंगे।

NORWAY : YWRONA

इसी प्रकार, PORTUGAL: UTRPOLGA

इसलिए, विकल्प D सही उत्तर है।

45. B

Sol. अनुसरण किया गया तर्क इस प्रकार है -

FLOOD	$6+12+15+15+4=52$	52=25 
HINT	$8+9+14+20=51$	51=15 
FAST	$6+1+19+20=46$	46=64 

इसलिए, विकल्प B सही उत्तर है।

46. A

Sol. पुस्तकें : स्कूल बैग :: गैस स्टोव : रसोई

पुस्तकें, स्कूल बैग में रखी जाती हैं, इसी प्रकार गैस चूल्हा रसोई में रखा जाता है।

इसलिए, विकल्प A सही उत्तर है।

47. A

Sol. जब कागज को मोड़ा जाता है और निर्देश के अनुसार काटा जाता है और फिर खोल दिया जाता है तो निर्मित आकृति नीचे दी गई है -



इसलिए, विकल्प A सही उत्तर है।

48. A

Sol. 
 $L \ O \ A \ N$
 $O \ L \ Z \ M = 15122613$
 $D \ E \ U \ C \ E$
 $W \ V \ F \ X \ V = 232262422$

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

इसलिए, विकल्प A सही उत्तर है।

49. D

Sol. यहां दिए गए तर्क को नीचे दी गई तालिका में समझाया गया है -

$17 \times 1 = 17$
$17 \times 2 = 34$
$34 \times 3 = 102$
$102 \times 4 = 408$
$408 \times 5 = 2040$

इसलिए, विकल्प D सही उत्तर है।

50. D

Sol. $7 : 53 :: 9 : ?$

$$(\text{पहला अंक})^2 + 4 :: (\text{दूसरा अंक})^2 + 4$$

$$7^2 = 49 + 4 = 53$$

$$9^2 = 81 + 4 = 85$$

इसलिए, विकल्प D सही उत्तर है।

51. D

Sol. बुधवार को बेचे गए कुल केक = $10500 \times 22\% = 2310$

$$\text{बुधवार को बेचे गए वेनिला केक} = 2310 \times \frac{13}{21} = 1430$$

अतः विकल्प D सही उत्तर है।

52. B

Sol. शुक्रवार को बेचे गए कुल केक = $10500 \times 10\% = 1050$

$$\text{शुक्रवार को बिकने वाले वेनिला केक} = 1050 \times \frac{4}{7} = 600$$

$$\text{शुक्रवार को बिकने वाले चॉकलेट केक} = 1050 - 600 = 450$$

शुक्रवार को सभी वेनिला केक और चॉकलेट केक बेचकर अर्जित की गई कुल राशि = $600 \times 8 + 450 \times 7 = 4800 + 3150 = 7950$ रुपये

अतः विकल्प B सही उत्तर है।

53. C

Sol. गुरुवार और रविवार को बेचे गए केक की कुल संख्या = $10500 \times (15 + 20)\%$

$$= 10500 \times 35\% = 3675$$

गुरुवार और रविवार को बेचे गए वेनिला केक की कुल संख्या = $1020 \times 2 = 2040$

गुरुवार और रविवार को बेचे गए चॉकलेट केक की कुल संख्या = $3675 - 2040 = 1635$

\Rightarrow गुरुवार को बेचे गए चॉकलेट केक की संख्या + रविवार को बेचे गए चॉकलेट केक की संख्या = 1635

$\Rightarrow 2 \times (\text{गुरुवार को बिकने वाले चॉकलेट केक की संख्या}) - 245 = 1635$

$\Rightarrow 2 \times (\text{गुरुवार को बिकने वाले चॉकलेट केक की संख्या}) = 1635 + 245$

\Rightarrow गुरुवार को बेचे गए चॉकलेट केक की संख्या = $1880/2 = 940$

अतः विकल्प C सही उत्तर है।

54. D

Sol. दिया गया है की:

निश्चित आँकड़ों के माध्य और माध्यिका का अनुपात 4:5 है।

मान लीजिए कि माध्य $4x$ है।

$$\text{तब, माध्यिका} = (4x) \times \frac{5}{4} = 5x$$

तथा

माध्य - बहुलक = 3 (माध्य - माध्यिका)

$$\Rightarrow 4x - \text{बहुलक} = 3(4x - 5x)$$

$$\Rightarrow \text{बहुलक} = 4x - 3(-x)$$

$$\Rightarrow \text{बहुलक} = 4x + 3x = 7x$$

अब, इसके बहुलक और माध्य का अनुपात

7x : 4x

7 : 4

अतः विकल्प D सही उत्तर है।

55. C

Sol. विक्रय मूल्य = $\frac{4}{7}$ CP

$$\text{इसलिए, हानि प्रतिशत} = \frac{CP - SP}{CP} \times 100$$

$$= \frac{CP - \frac{4}{7}CP}{CP} \times 100$$

$$= \frac{3}{7} \times 100 = 42\frac{6}{7}$$

अतः विकल्प C सही उत्तर है।

56. C

Sol. मान लीजिए कि सम संख्याएँ x - 3, x - 1, x + 1 और x + 3 हैं।

प्रश्न के अनुसार,

$$\frac{x - 3 + x - 1 + x + 1 + x + 3}{4} = 27$$

$$\Rightarrow x = 27$$

अपेक्षित,

$$x - 3 = 27 - 3 = 24$$

अतः विकल्प C सही उत्तर है।

57. A

Sol. A $7\frac{1}{2}$ या $\frac{15}{2}$ दिनों में कार्य कर सकता है,

इसलिए, A द्वारा 1 दिन में किया गया कार्य = $\frac{2}{15}$

इसी प्रकार B किसी कार्य को $10\frac{1}{2}$ या $\frac{21}{2}$ दिनों में कर सकता है।

अतः B द्वारा 1 दिन में किया गया कार्य = $\frac{2}{21}$

तो, A और B दोनों द्वारा 1 दिन में किया गया कार्य = $\frac{2}{21} + \frac{2}{15}$

$$= \frac{10 + 14}{105}$$

$$= \frac{24}{105}$$

$$= \frac{8}{35}$$

इसलिए, लिया गया समय = $\frac{1}{\frac{8}{35}} = \frac{35}{8} = 4\frac{3}{8}$ दिन

अतः विकल्प A सही उत्तर है।

58. A

Sol. माना योग y है।

प्रश्न के अनुसार,

$$y \left(1 + \frac{10.5 \times 5}{100}\right) = 27450$$

$$\Rightarrow y(1 + 0.525) = 27450$$

$$\Rightarrow 1.525y = 27450$$

$$\Rightarrow y = 18000$$

अतः विकल्प A सही उत्तर है।

59. D

Sol. $5 - 5 \div 5 \times 5 + (7 \div 6 \text{ का } 7) \times 6 - \left(3\frac{2}{3} \div \frac{11}{30} \text{ of } \frac{2}{3}\right) \div 5$

$$= 5 - 5 \div 5 \times 5 + (7 \div 42) \times 6 - \left(\frac{11}{3} \div \frac{11}{45} \right) \div 5$$

$$= 5 - 5 \div 5 \times 5 + \frac{1}{6} \times 6 - 15 \div 5$$

$$= 5 - 1 \times 5 + 1 - 3$$

$$= 5 - 5 + 1 - 3$$

$$= -2$$

अतः विकल्प D सही उत्तर है।

60. D

Sol. पुराना विक्रय मूल्य = CP का $\left(100 - 12\frac{1}{2}\right)\%$

नया विक्रय मूल्य = CP का $\left(100 + 11\frac{1}{5}\right)\%$

प्रश्न के अनुसार,

विक्रय मूल्य में परिवर्तन = 118.5

$$\Rightarrow \text{CP का } \left(100 + 11\frac{1}{5}\right)\% - \text{CP का } \left(100 - 12\frac{1}{2}\right)\% = 118.5$$

$$\Rightarrow \text{CP का } \left(\frac{56}{5} - \frac{25}{2}\right)\% = 118.5$$

$$\Rightarrow \left(\frac{112 + 125}{10}\right) \times \frac{1}{100} \text{ CP} = 118.5$$

$$\Rightarrow 237 \text{ CP} = 118500$$

$$\Rightarrow \text{CP} = 500$$

अतः विकल्प D सही उत्तर है।

61. C

Sol. माना विनोद की वर्तमान आयु x वर्ष है तो विनीत की वर्तमान आयु x - 8 वर्ष है,

प्रश्न के अनुसार,

$$x - 12 : x - 4 = 1 : 2$$

$$\Rightarrow \frac{x - 12}{x - 4} = \frac{1}{2}$$

$$\Rightarrow 2x - 24 = x - 4$$

$$\Rightarrow x = 20$$

अतः विकल्प C सही उत्तर है।

62. C

Sol. कार की औसत गति = $880/16 = 55$ किमी/घंटा

इसलिए, ट्रेन की औसत गति = 55 का $160\% = 1.6 \times 55 = 88$ किमी/घंटा

484 किमी की दूरी तय करने में ट्रेन द्वारा लिया गया समय = $\frac{484}{88} = \frac{11}{2} = 5\frac{1}{2}$ घंटे

अतः विकल्प C सही उत्तर है।

63. B

Sol. माना भुजा की लंबाई x है तो नई लंबाई = $1.4x$

पुराना क्षेत्रफल = x^2

नया क्षेत्रफल = $(1.4x)^2 = 1.96x^2$

क्षेत्रफल में प्रतिशत वृद्धि = $\frac{1.96x^2 - x^2}{x^2} \times 100$

= 96%

अतः विकल्प B सही उत्तर है।

64. D

Sol. माना त्रिज्या r और ऊंचाई h है।

प्रश्न के अनुसार,

$$\frac{2\pi rh}{2\pi r(r+h)} = \frac{4}{7}$$

$$\Rightarrow \frac{h}{r+h} = \frac{4}{7}$$

$$\Rightarrow 7h = 4r + 4h$$

$$\Rightarrow h = \frac{4}{3}r$$

दिया गया है की,

आयतन = 4851

$$\Rightarrow \pi r^2 h = 4851$$

$$\Rightarrow \frac{22}{7} \times r^2 \times \frac{4}{3}r = 4851$$

$$\Rightarrow r^3 = \frac{441 \times 21}{8}$$

$$\Rightarrow r = \frac{21}{2} = 10.5 \text{ सेमी}$$

अतः विकल्प D सही उत्तर है।

65. D

Sol. माना A का वेतन $6x$ है तो B का वेतन $7x$ है।

वेतन बढ़ि के बाद A का वेतन = 126600

$$\Rightarrow (100 + 5\frac{1}{2}) 6x \text{ का \%} = 126600$$

$$\Rightarrow (1.055)6x = 126600$$

$$\Rightarrow x = 20000$$

$$\text{तो, B का वेतन} = 7x = 7 \times 20000 = 140000$$

अतः विकल्प D सही उत्तर है।

66. B

Sol. मान लीजिए कि संख्याएँ a और b हैं।

प्रश्न के अनुसार,

$$\text{HCF} \times \text{LCM} = 96 \times 8$$

$$\Rightarrow ab = 768$$

$$\Rightarrow 4ab = 3072 \dots\dots(1)$$

साथ ही,

$$a + b = 56$$

$$\Rightarrow (a + b)^2 = 3136 \dots\dots(2)$$

समीकरण 2 - समीकरण 1

$$(a + b)^2 - 4ab = 3136 - 3072$$

$$\Rightarrow (a - b)^2 = 64$$

$$\Rightarrow a - b = 8$$

अतः विकल्प B सही उत्तर है।

67. D

Sol. माना C द्वारा अकेले कार्य को पूरा करने में लिया गया समय = y दिन

$$A \text{ और } B \text{ द्वारा } 4 \text{ दिनों में पूरा किया गया कार्य} = 4\left(\frac{1}{12} + \frac{1}{18}\right)$$

$$= 4\left(\frac{2+3}{36}\right) = \frac{5}{9}$$

$$\text{शेष कार्य} = 1 - \frac{5}{9} = \frac{4}{9}$$

प्रश्न के अनुसार,

$$4\left(\frac{1}{12} + \frac{1}{y}\right) = \frac{4}{9}$$

$$\Rightarrow 4\left(\frac{y+12}{12y}\right) = \frac{4}{9}$$

$$\Rightarrow 3y + 36 = 4y$$

$$\Rightarrow y = 36$$

अतः विकल्प D सही उत्तर है।

68. A

Sol. माना चाल $3y$ है तो समय y होगा।

प्रश्न के अनुसार,

$$3y \times y = 300$$

$$\Rightarrow y^2 = 100$$

$$\Rightarrow y = 10 \text{ किमी/घंटा}$$

अतः विकल्प A सही उत्तर है।

69. B

Sol. माना ऊँचाई h और तिरछी ऊँचाई L है एवं गोले की तिरज्या R है।

प्रश्न के अनुसार,

$$\pi rL = \frac{3432}{7}$$

$$\Rightarrow \frac{22}{7} \times 12L = \frac{3432}{7}$$

$$\Rightarrow L = 13 \text{ सेमी}$$

$$\text{ऊँचाई } (h) = \sqrt{L^2 - r^2} = \sqrt{13^2 - 12^2} = \sqrt{169 - 144} = 5 \text{ सेमी}$$

$$\text{अब, शंकु का आयतन} = \frac{1}{3} \pi r^2 h$$

$$\text{इसलिए, गोले का आयतन} = 1.2 \times \frac{1}{3} \pi r^2 h$$

$$\Rightarrow \frac{4}{3} \pi R^3 = 1.2 \times \frac{1}{3} \pi r^2 h$$

$$\Rightarrow \frac{4}{3} \pi R^3 = 1.2 \times \frac{1}{3} \pi \times 12^2 \times 5$$

$$\Rightarrow R^3 = 216$$

$$\Rightarrow R = 6 \text{ सेमी}$$

अतः विकल्प B सही उत्तर है।

70. D

$$\text{Sol. कुल व्यय} = (4 \times 12000) + (3 \times 15000) + (5 \times 17000)$$

$$= 48000 + 45000 + 85000$$

$$= 178000$$

$$\text{कुल आय} = \text{कुल व्यय} + \text{कुल बचत}$$

$$= 178000 + 152000 = 330000$$

$$\text{औसत मासिक आय} = 330000/12 = 27500$$

अतः विकल्प D सही उत्तर है।

71. C

Sol. माना ब्याज दर $y\%$ है।

प्रश्न के अनुसार,

$$12500 \left(1 + \frac{y}{100}\right)^2 = 14045$$

$$\Rightarrow \left(1 + \frac{y}{100}\right)^2 = \frac{14045}{12500} = \frac{2809}{2500}$$

$$\Rightarrow \left(1 + \frac{y}{100}\right)^2 = \left(\frac{53}{50}\right)^2$$

$$\Rightarrow \left(1 + \frac{y}{100}\right) = \frac{53}{50}$$

$$\Rightarrow \frac{y}{100} = \frac{53}{50} - 1$$

$$\Rightarrow \frac{y}{100} = \frac{3}{50}$$

$$\Rightarrow y = 6$$

अतः विकल्प C सही उत्तर है।

72. D

Sol. माना किसी वस्तु का मूल्य x तथा मात्रा y है।

तो,

$$xy = 280 \dots\dots(1)$$

साथ ही,

$$\left(1 - \frac{12.5}{100}\right)x(y + 2.5) = 280$$

$$\Rightarrow \frac{7}{8}x(y + 2.5) = 280 \dots \text{समीकरण } (2)$$

समीकरण 2 को समीकरण 1 से विभाजित किया जाता है,

$$\frac{7x(y + 2.5)}{8xy} = \frac{280}{280}$$

$$\Rightarrow \frac{7(y + 2.5)}{8y} = 1$$

$$\Rightarrow 7y + 17.5 = 8y$$

$$\Rightarrow y = 17.5$$

इस मान को समीकरण 2 में रखें,

$$\frac{7}{8}x(17.5 + 2.5) = 280$$

$$\Rightarrow \frac{7}{8}x = 14$$

तो, वस्तु का घटा हुआ मूल्य = 14

अतः विकल्प D सही उत्तर है।

73. B

Sol. दिया गया है की,

$$C = 5500$$

$$\Rightarrow B = 5500 \text{ का } 2.5\%$$

$$\Rightarrow B = 2.5 \times 55 = 137.5$$

साथ ही,

$$\frac{11}{5}A = \frac{22}{100}B$$

$$\Rightarrow \frac{11}{5}A = \frac{22}{100} \times 137.5$$

$$\Rightarrow A = 13.75$$

अब, अपेक्षित

A का 40% + B का 20%

$$= \frac{40}{100} \times 13.75 + \frac{20}{100} \times 137.5$$

$$= 5.5 + 27.5$$

$$= 33$$

अतः विकल्प B सही उत्तर है।

74. B

Sol. माना आयत की लंबाई $7y$ है तो चौड़ाई $4y$ है।

प्रश्न के अनुसार,

$$2(7y + 4y) = 2\pi \times 28$$

$$\Rightarrow 11y = \frac{22}{7} \times 28$$

$$\Rightarrow y = 8$$

$$\text{इसलिए, आयत का क्षेत्रफल} = 7y \times 4y$$

$$= 7 \times 8 \times 4 \times 8$$

$$= 1792$$

अतः विकल्प B सही उत्तर है।

75. D

Sol. मान लीजिए कि ब्याज दर $y\%$ प्रतिवर्ष है।

प्रश्न के अनुसार,

$$x \left(1 + \frac{y}{100}\right)^3 = 27900 \quad \dots\dots(1)$$

साथ ही,

$$x \left(1 + \frac{y}{100}\right)^6 = 41850 \quad \dots\dots(2)$$

समीकरण 2 को समीकरण 1 से विभाजित करने पर,

$$\Rightarrow \frac{x \left(1 + \frac{y}{100}\right)^6}{x \left(1 + \frac{y}{100}\right)^3} = \frac{41850}{27900}$$

$$\Rightarrow \left(1 + \frac{y}{100}\right)^3 = 1.5$$

अब इसे समीकरण (i) में रखें,

$$(x) \times 1.5 = 27900$$

$$\Rightarrow x = 27900/1.5 = 18600$$

अतः विकल्प D सही उत्तर है।

76. A

Sol.

* गोवा क्षेत्रफल के हिसाब से भारत का सबसे छोटा और जनसंख्या के हिसाब से चौथा सबसे छोटा राज्य है।

* गोवा में केवल दो जिले, उत्तरी गोवा और दक्षिण गोवा हैं।

* उत्तर प्रदेश (75) में सबसे अधिक जिले हैं, इसके बाद मध्य प्रदेश (52) है।

* प्रमोद सावंत गोवा के 13वें और वर्तमान मुख्यमंत्री हैं।

* पीएस शरीधरन पिल्लई गोवा के वर्तमान राज्यपाल हैं।

77. C

Sol. * लखनऊ समझौते पर 1916 में हस्ताक्षर किए गए थे।

* यह भारतीय राष्ट्रीय कांग्रेस और मुस्लिम लीग के बीच एक समझौता था।

* दिसम्बर 1916 में लखनऊ में आयोजित दोनों पक्षों के संयुक्त अधिवेशन में इस पर हस्ताक्षर किए गए।

78. B

Sol. * भारतीय ध्वज (तिरंगा) पिंगली वेंकैया द्वारा डिजाइन किया गया था।

* 22 जुलाई 1947 को हुई संविधान सभा की बैठक के दौरान इसे अपने वर्तमान स्वरूप में अपनाया गया था।

* यह 15 अगस्त 1947 को भारत के डोमिनियन का आधिकारिक ध्वज बन गया।

79. D

Sol. * भुशी झील एक शांत जल निकाय है।

* यह भुशी बांध के जलकुंड से बना है।

* यह लोनावाला, महाराष्ट्र में स्थित है।

80. C

Sol. * अधिवृक्क ग्रंथि कोर्टिसोल का उत्पादन करती है।

* कोर्टिसोल एक प्राकृतिक रूप से पाया जाने वाला स्टेरॉयड हार्मोन है।

* यह शरीर की तनाव प्रतिक्रिया में महत्वपूर्ण भूमिका निभाता है।

* इसे अक्सर "तनाव हार्मोन" (स्ट्रेस हार्मोन) कहा जाता है।

81. C

Sol. * झारखंड ब्राह्मणी, खरकई और सुवर्णरेखा नदियों का स्रोत है।

* ब्राह्मणी नदी झारखंड के संथाल परगना से निकलती है।

* खरकई नदी झारखंड के छोटा नागपुर पठार से निकलती है।

* यह सुवर्णरेखा नदी की प्रमुख सहायक नदियों में से एक है।

* सुवर्णरेखा नदी भारत की प्रमुख अंतरराज्यीय नदी घाटियों में सबसे छोटी है।

* यह रांची, झारखंड के नजदीक पिस्का या नगरी नामक गांव के पास निकलती है।

82. C

Sol. * राष्ट्रीय कृषि और ग्रामीण विकास बैंक (नाबाड़) भारत में क्षेत्रीय ग्रामीण बैंकों और शीर्ष सहकारी बैंकों के समग्र विनियमन के लिए एक शीर्ष नियामक निकाय है।

* यह वित्त मंत्रालय के अधिकार क्षेत्र में है।

* इसकी स्थापना 12 जुलाई 1982 को बी. शिवरामन समिति की सिफारिशों पर की गई थी।

* इसका मुख्यालय मुंबई, महाराष्ट्र में है।

* गोविंदा राजुलु चिंताला नाबाड़ के वर्तमान अध्यक्ष हैं।

83. D

Sol. * फिजियोलॉजी या मेडिसिन 2018 में नोबेल पुरस्कार संयुक्त रूप से जेम्स पी एलिसन और तासुकु होंजो को "नकारात्मक प्रतिरक्षा विनियमन के निषेध द्वारा कैंसर चिकित्सा की खोज के लिए" प्रदान किया गया था।

* फिजियोलॉजी या मेडिसिन में नोबेल पुरस्कार प्रत्येक वर्ष नोबेल असेंबली द्वारा फिजियोलॉजी या मेडिसिन में उत्कृष्ट खोजों के लिए दिया जाता है।

* 2021 तक फिजियोलॉजी या मेडिसिन में 112 नोबेल पुरस्कार 224 पुरस्कार विजेताओं, 212 पुरुषों और 12 महिलाओं को दिए गए।

* फिजियोलॉजी या मेडिसिन में पहला नोबेल पुरस्कार 1901 में जर्मन फिजियोलॉजिस्ट एमिल वॉन बेहरिंग को सीरम थेरेपी पर उनके काम और डिष्ट्रीरिया के खिलाफ एक टीके के विकास के लिए दिया गया था।

* नोबेल पुरस्कार भौतिकी, रसायन विज्ञान, शरीर क्रिया विज्ञान या चिकित्सा, साहित्य और शांति के क्षेत्र में दिए जाते हैं।

84. D

Sol. * 'थोलू बोमलता' (चमड़े की छाया वाला कठपुतली शो) आंध्र प्रदेश राज्य का पारंपरिक कला रूप है।

* माना जाता है कि सातवाहन राजवंश के शासन के दौरान कला के इस रूप की उत्पत्ति 200 ईसा पूर्व में हुई थी।

* चमड़े की कठपुतली आंध्र प्रदेश कला और शिल्प की पहचान है।

85. B

Sol. * पहली पंचवर्षीय योजना 1951 में शुरू की गई थी।

* यह हैरोड-डोमर मॉडल पर आधारित था।

* इस पंचवर्षीय योजना के अध्यक्ष जवाहरलाल नेहरू थे और गुलजारीलाल नंदा उपाध्यक्ष थे।

* प्रथम पंचवर्षीय योजना का आदर्श वाक्य 'कृषि का विकास' था।

* हैरोड-डोमर मॉडल को स्वतंत्र रूप से रॉय एफ. हैरोड ने 1939 में और एवसी डोमर ने 1946 में स्वतंत्र रूप से विकसित किया था।

86. C

Sol. * पूर्व भारतीय अंतरिक्ष अनुसंधान संगठन (इसरो) के अध्यक्ष ए एस किरण कुमार को 2 मई 2019 को फ्रांस सरकार द्वारा शेरेलियर डी ल'ऑडर नेशनल डे ला लेजियन डी'होनूर (Chevalier de l'Ordre national de la Légion d'Honneur) के गौरव से सम्मानित किया गया।

* उन्हें फ्रांस के राष्ट्रपति की ओर से भारत में फ्रांस के राजदूत अलेक्जेंड्रे ज़िग्लर ने सम्मानित किया।

* द लीजन ऑफ ऑनर (ऑडर नेशनल डे ला लेजियन डी'होनूर) फ्रांस का प्रमुख पुरस्कार है।

* इसकी स्थापना नेपोलियन बोनापार्ट ने फ्रांस की सेवा की प्रख्यात उपलब्धियों को मान्यता देने के लिए की थी।

* ए.एस किरण कुमार को 2014 में भारत के चौथे सर्वोच्च नागरिक पुरस्कार पद्म शशी से भी सम्मानित किया गया था।

87. C

Sol. * बेसल मानदंड बैंकिंग पर्यवेक्षण (BCBS) पर बेसल समिति द्वारा जारी किए गए अंतर्राष्ट्रीय बैंकिंग नियमों के मानदंड हैं।

* इन मानदंडों का उद्देश्य विश्वभर में बैंकिंग नियमों का समन्वय करना और अंतर्राष्ट्रीय बैंकिंग प्रणाली को मजबूत करना है।

* BCBS में भारत सहित विश्वभर के देशों के 27 प्रतिनिधि शामिल हैं।

88. A

Sol. * "मिसेज फनीबोन्स: शीज जस्ट लाइक यू एंड ए लॉट लाइक मी" 2015 की भारतीय गैर-फिक्शन पुस्तक है।

* इसे बॉलीवुड एक्टरेस ट्रिवंकल खन्ना ने लिखा है।

* यह पेंगुइन इंडिया द्वारा अगस्त 2015 में प्रकाशित किया गया था।

89. B

Sol. * स्वराज कौशल जुलाई 2020 तक किसी भारतीय राज्य के सबसे कम आयु के राज्यपाल थे।

* वह 37 वर्ष की आयु में मिजोरम के राज्यपाल बने।

* उन्होंने 1990 और 1993 के बीच मिजोरम के राज्यपाल के रूप में कार्य किया।

* उन्हें 34 वर्ष की आयु में भारत के सर्वोच्च न्यायालय द्वारा एक वरिष्ठ अधिवक्ता के रूप में नामित किया गया था।

90. C

Sol. * पांडिचेरी भारत में फ्रांसीसी उपनिवेश की राजधानी थी।

* पांडिचेरी की नीव 1673 में रखी गई थी।

* फ्रांसीसी ईस्ट इंडिया कंपनी का गठन 1664 में लुई XIV के शासनकाल के दौरान राज्य के संरक्षण में कोलबर्ट द्वारा किया गया था।

* पहला फ्रांसीसी कारखाना सूरत में 1668 में फ्रेंकोइस कैरन द्वारा स्थापित किया गया था और दूसरा 1669 में मसूलीपट्टनम में स्थापित किया गया था।

91. C

Sol. * मोपिन त्योहार अरुणाचल प्रदेश के निवासियों द्वारा मनाया जाता है।

* यह गालो जनजाति द्वारा अप्रैल के महीने में मनाया जाता है।

* यह त्योहार बुरी आत्माओं को दूर भगाने के लिए मनाया जाता है।

* ईटानगर अरुणाचल प्रदेश की राजधानी है।

* पेमा खांडू अरुणाचल प्रदेश के वर्तमान मुख्यमंत्री हैं।

* बी.डी मिश्रा अरुणाचल प्रदेश के वर्तमान राज्यपाल हैं।

92. C

Sol. * सरमती पर्वत (12,552 फीट) एक पर्वत छोटी है।

* यह भारत और म्यांमार के बीच एक प्राकृतिक सीमा बनाती है।

* यह नागालैंड के किफिर ज़िले के थानामीर गांव के पास स्थित है।

* इसे लोकप्रिय रूप से नागालैंड के ताज के रूप में जाना जाता है।

* कलसुबाई पर्वत - महाराष्ट्र

* डोड्डाबेट्टा पर्वत - तमिलनाडु

* धूपगढ़ पर्वत - मध्य प्रदेश

93. D

Sol. * लावणी महाराष्ट्र राज्य की एक प्रदर्शन कला है।

* यह पारंपरिक गीत और नृत्य का एक संयोजन है।

* लोक रूप की उत्पत्ति का पता 16वीं शताब्दी में लगाया जा सकता है लेकिन पेशवा शासन में इसे प्रमुखता मिली।

* कालबेलिया- राजस्थान

* दांडी गैर-राजस्थान

94. C

Sol. * पुमाइस चट्टानें पानी में तैरती हैं।

* पुमाइस पायरोक्लास्टिक आग्नेय चट्टान है।

* तीन प्रकार की चट्टानें : आग्नेय, अवसादी और कायांतरित होती हैं।

* आग्नेय चट्टानें गर्म और पिघले हुए मैग्मा के ठंडा होने, जमने और क्रिस्टलीकरण के कारण बनती हैं।

* इन्हें प्राथमिक चट्टानें कहा जाता है।

* तलछटी चट्टानें पुरानी चट्टानों, पौधों, जानवरों और पौधों के जीवाश्मों से प्राप्त तलछट के एकत्रीकरण और संघनन के कारण बनती हैं।

* कायांतरित चट्टानें आग्नेय और अवसादी चट्टानों का परिवर्तित रूप हैं।

95. C

Sol. * सल्प्यूरिक एसिड का उपयोग लेड-एसिड बैटरी में इलेक्ट्रोलाइट के रूप में किया जाता है।

* सल्प्यूरिक एसिड एक खनिज एसिड है जिसका रासायनिक सूत्र H_2SO_4 होता है।

* इसे "विट्रियल का तेल" के रूप में भी जाना जाता है।

* अतः विकल्प C सही उत्तर है।

96. A

Sol. * सिरका में आमतौर पर मात्रा के हिसाब से 5-8% एसिटिक एसिड होता है।

* सिरका आमतौर पर भोजन तैयार करने में प्रयोग किया जाता है।

* एसिटिक एसिड एक अम्लीय, रंगहीन तरल और कार्बनिक यौगिक है, जिसका रासायनिक सूत्र CH_3COOH है।

97. C

Sol. * 'पुलिस और लोक व्यवस्था' भारत के संविधान की सातवीं अनुसूची के तहत राज्य के विषय हैं।

* भारत के संविधान की सातवीं अनुसूची संघ और राज्यों के बीच शक्तियों और कार्यों के आवंटन को परिभाषित और निर्दिष्ट करती है।

* इसमें तीन सूचियाँ हैं; अर्थात्, 1) संघ सूची, 2) राज्य सूची और 3) समवर्ती सूची।

98. A

Sol. * पूर्व भारतीय राजदूत नवदीप सिंह सूरी को 2019 में यूरेंड्र द्वारा प्रथम श्रेणी ऑर्डर ऑफ जायद || पुरस्कार से सम्मानित किया गया।

* उन्होंने दिसंबर 2016 से सितंबर 2019 तक संयुक्त अरब अमीरात में भारत के राजदूत के रूप में कार्य किया।

* वह 1983 में भारतीय विदेश सेवा में शामिल हुए।

* जायद बिन सुल्तान अल नाहयान के नाम पर 'द ऑर्डर ऑफ जायद' यूरेंड का सर्वोच्च नागरिक सम्मान है।

* अबू धाबी संयुक्त अरब अमीरात (यूएई) की राजधानी है।

* दिरहम यूरेंड की आधिकारिक मुद्रा है।

99. B

Sol. * 2019 में भारतीय क्यूइस्ट पंकज आडवाणी पांच अलग-अलग वर्षों में एक साथ विश्व, एशियाई और भारतीय खिताब जीतने वाले पहले व्यक्ति बने।

* वह 23 बार के अंतर्राष्ट्रीय बिलियडर्स और स्नूकर फेडरेशन (IBSF) के विश्व चैम्पियन हैं।

* उन्होंने 16 बिलियडर्स वर्ल्ड टाइटल, 15 मौकों पर IBSF वर्ल्ड बिलियडर्स चैम्पियनशिप और एक बार वर्ल्ड टीम बिलियडर्स चैम्पियनशिप जीती।

* स्नूकर में, उन्होंने तीन बार IBSF विश्व स्नूकर चैम्पियनशिप जीती।

* उन्हें 2004 में अर्जुन पुरस्कार, 2006 में मेजर ध्यानचंद खेल रत्न, 2009 में पद्मश्री और 2018 में पद्म भूषण से सम्मानित किया गया।

100. B

Sol. * मिहिर सेन 1958 में इंगिलिश चैनल तैरकर पार करने वाले पहले भारतीय तैराक थे।

* वह एशिया के पहले इंगिलिश चैनल तैराक भी थे।

* वह एक प्रसिद्ध भारतीय लंबी दूरी के तैराक और वकील थे।

* वह कैलेंडर वर्ष (1966) में पांच महाद्वीपों के महासागरों को तैरने वाले एकमात्र व्यक्ति थे। इनमें पाक जलडमरुमध्य, डार्डनेल्स, बोस्फोरस, जिब्राल्टर और पनामा नहर की पूरी लंबाई शामिल थी।