



SSC MTS 2020 Tier I : 27

October S2

Mock Test Questions & Solutions

Mock Test Solutions in English

Questions

1. Select the most appropriate word for the given group of words.

Something that can be carried easily

- | | |
|--------------|-------------|
| A. Mobile | B. Potable |
| C. Briefcase | D. Portable |

2. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

My father made me to do the French grammar exercise again and again.

3. Identify the segment that contains a grammatical error. If there is no error, select 'No error.'

It was her who represented our school in the interschool debate competition.

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

JUICY

- A. Oily
 - B. Dewy
 - C. Watery
 - D. Dry

5. Select the most appropriate option to substitute the underlined segment in the given sentence.

My uncle and his family may come late last night, but I am not sure.

6. 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'.

Everybody respecting her because she is so sincere.

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

To be on a roll

- A. To be experiencing a successful period B. To be experiencing setbacks
C. To be feeling extremely unhappy D. To be moving from place to place

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

POMPOUS

- A. Boastful B. Dull
C. Humble D. Modest

15. Select the most appropriate word for the given group of words.

A person's entire collection of clothes

- A. Dowry B. Closet
C. Attire D. Wardrobe

16. Select the INCORRECTLY spelt word.

- A. Fullfil B. Futile
C. Fuse D. Furl

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

Everyone without _____ voted for a holiday.

- A. omission B. acceptance
C. exception D. impression

18. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

Your essay is good excepting for the spelling.

- A. Your essay is good B. excepting for
C. No error D. the spelling

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

_____ repeated warnings, he still comes late.

- A. In spite of B. Even though
C. In case of D. In order to

20. Select the INCORRECTLY spelt word.

- | | |
|-----------|-----------|
| A. Divine | B. Devote |
| C. Dive | D. Devide |

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.

We set sail the very next day, and cruised from island to island in the fine weather. (1)_____ we landed we found a crowd of merchants and clients eager (2)_____ business with us. At last we came to (3)_____ peaceful island, with no sign of human (4)_____. It was a lovely place, with green trees, brightly (5)_____ birds, and cool running streams. I roamed around and found a pleasant spot to eat the lunch that I had brought with me.

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

- | | |
|-------------|--------------|
| A. Wherever | B. Whatever |
| C. However | D. Somewhere |

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

- | | |
|----------|-------------|
| A. do | B. to do |
| C. doing | D. to doing |

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

- | | |
|-------|--------|
| A. a | B. any |
| C. an | D. the |

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

- | | |
|----------------|----------------|
| A. inhabitants | B. people |
| C. persons | D. individuals |

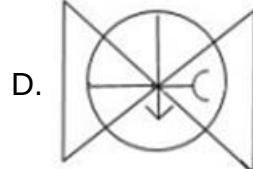
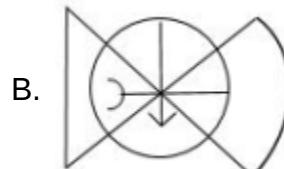
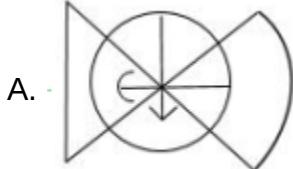
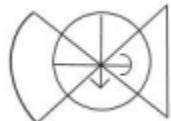
25. Select the most appropriate option to fill in blank no. 5

- | | |
|------------|-----------|
| A. colours | B. colour |
|------------|-----------|

C. colouring

D. coloured

26. Select the mirror image of the figure, when the mirror is placed on the right side of the figure.



27. If RELICS is coded as 120 and BASTION is coded as 146, then how would DISTANT be coded?

A. 88

B. 182

C. 160

D. 170

28. Two statements are followed by two conclusions numbered I and II. Assuming the statements to be true even if they do not conform to real-world knowledge, decide which of the conclusions logically follows/follow from the statements.

Statements:

1) Some cottages are huts.

2) All huts are sheds.

Conclusions:

I. Some sheds are cottages.

II. No shed is a cottage.

A. Only conclusion II follows

B. Only conclusion I follows

- C. Either conclusion I or conclusion II follows D. Both conclusions I and II follow

29. Choose the set of numbers that is similar to the following set.

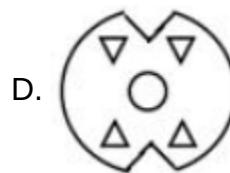
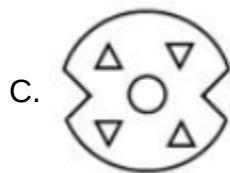
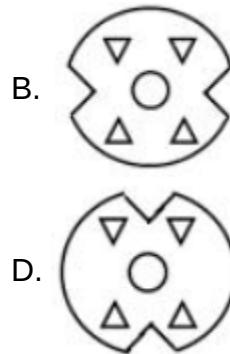
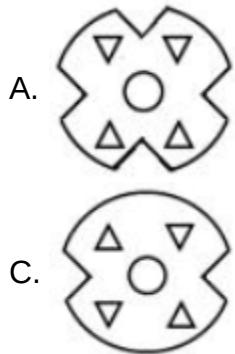
{12, 28, 32}

- A. {39, 78, 102} B. {15, 35, 45}
C. {9, 21, 24} D. {21, 48, 56}

30. If GOD is coded as 55 and MAKE is coded as 78, then how would BYTE be coded?

- A. 56 B. 72
C. 52 D. 63

31. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the figures below. How would the paper look when unfolded?



32. If PROBABLE is coded as OORABLBF, then how would TELEGRAM be coded?

- A. SFMDFARN B. SLEGEARN
C. ULEGEARL D. SLEEGARN

33. In a row of students, Reeta is 11th from the right and Madhuri is 14th from the left. Riya is exactly in the middle of Reeta and Madhuri. If there are 16 students in the row, what is Riya's position from the left?

- A. 9th B. 11th
C. 10th D. 13th

34. If the signs + and ÷ are interchanged, then which of the following equations would be correct?

A. $12 + 4 - 4 \div 2 = 3$

B. $9 \div 9 - 9 + 9 = 9$

C. $16 \div 4 - 10 + 2 = 15$

D. $12 \div 3 + 9 - 9 = 4$

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

266, 138, 74, 42, ?, 18

A. 18

B. 28

C. 34

D. 26

36. 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.

NICER : WAFGO :: SCARF : ?

A. AYXEQ

B. KNDAT

C. NKTDA

D. KMGBT

37. The Academic Staff College organised a refresher course in six different subjects, only one on each day, from Monday to Sunday.

i. One of the days was a holiday.

ii. Psychology was on the previous day of the holiday.

iii. The course ended with History.

iv. Economics, which was taken up on Wednesday, was on the previous day of Physics.

v. Psychology and Philosophy had a gap of two days.

vi. There was gap of one day between Sociology and Economics and a gap of two days between Sociology and Physics.

Which day was a holiday?

A. Wednesday

B. Saturday

C. Friday

D. Thursday

38. 'Restaurant' is related to 'Menu' in the same way as 'Library' is related to '_____'.

A. Register

C. Book

B. Rack

D. Catalogue

39. Three statements are followed by three conclusions numbered I, II and III. Assuming the statements to be true even if they do not conform to real-world knowledge, decide which of the conclusions logically follows/follow from the statements.

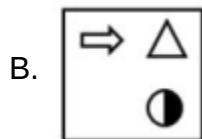
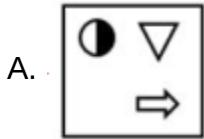
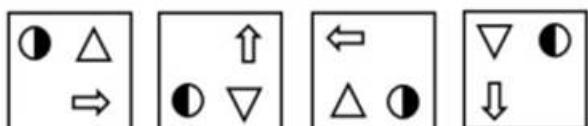
Statements:

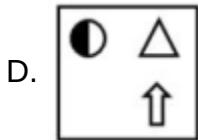
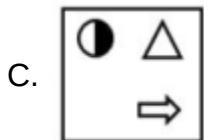
- 1) All uncles are relatives.
- 2) Some relatives are neighbours.
- 3) All neighbours are employed.

Conclusions:

- I. Some neighbours are uncles.
 - II. Some uncles are employed.
 - III. Some relatives are employed.
- A. Only conclusions I and II follow B. Only conclusions II and III follow
C. Only conclusion III follows D. Only conclusion I follows

40. Which option figure would come next in the following figure series?





41. Seven boys A, B, C, D, E, F and G are standing in a row.

- D is to the immediate left of F.
- A is to the immediate left of G.
- E and G have two boys between them.
- B is between D and G.

Who is standing exactly in the middle?

- | | |
|------|------|
| A. F | B. D |
| C. G | D. B |

42. 'Inventor' is related to 'Imagination' in the same way as 'Teacher' is related to '_____':

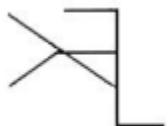
- | | |
|---------------|---------------|
| A. Profession | B. Discipline |
| C. Knowledge | D. Read |

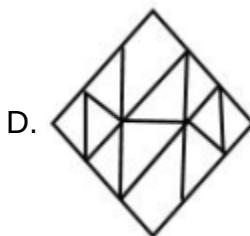
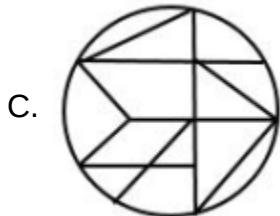
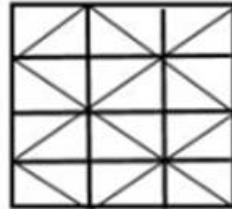
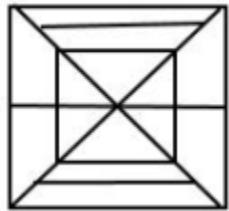
43. Which two signs should be interchanged to make the given equation correct?

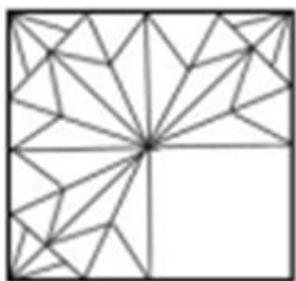
$$25 - 15 \div 5 \times 10 + 20 = 35$$

- | | |
|------------|------------|
| A. – and × | B. + and – |
| C. + and ÷ | D. ÷ and × |

44. Select the option in which the given figure is embedded (rotation is NOT allowed).



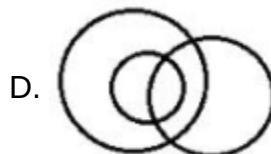
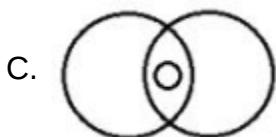
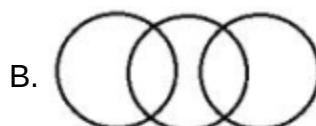
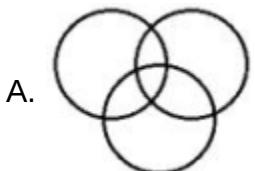






48. Select the Venn diagram that best illustrates the relationship among the following classes.

Tennis fans, Students, Hockey players



49. Select the number-pair in which the two numbers are related in the same way as the two numbers of the pair given below.

15 : 65

A. 33 : 140

B. 8 : 28

C. 26 : 102

D. 18 : 82

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

AZB, CBD, FEG, JIK, ?

A. ONP

B. NMO

C. OMP

D. NOP

51. If the radius of a sphere is increased by $16\frac{2}{3}\%$, then by what per cent would its surface area increase (correct to one decimal place)?

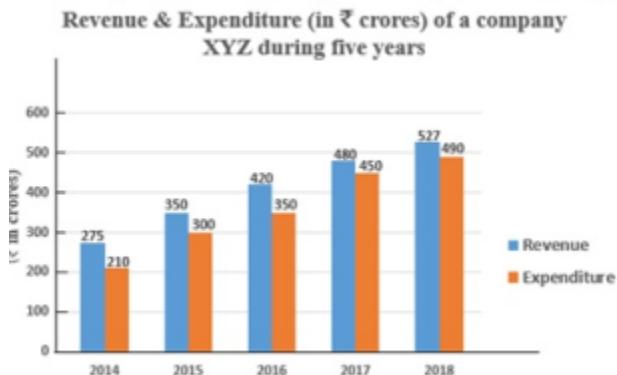
A. 34.8%

B. 36.1%

C. 33.9%

D. 35.6%

52. Direction: Study the given graph and answer the question that follows.



If a pie chart is drawn for the data related to the expenditure of the company in five years, then the central angle of the sector representing expenditure in 2016 will lie between:

- A. 74° and 77° B. 71° and 74°
C. 65° and 68° D. 68° and 71°
53. In which year is the revenue of the company equal to 1.2 times the average expenditure during 2014, 2016 and 2018?
- A. 2016 B. 2015
C. 2017 D. 2018
54. By what percentage is the total revenue of the company in 2014, 2015 and 2018 more than the total expenditure in 2016 and 2017?
- A. 42% B. 44%
C. 52.75% D. 34.5%
55. The value of $\frac{4}{5} \times 1\frac{1}{9} \div \frac{8}{15} + \left(5\frac{1}{4} \div \frac{3}{7} \text{ of } \frac{1}{4} \times \frac{2}{7} \right) \div 5\frac{3}{5} - \frac{1}{4} \div \frac{3}{2}$ is:
- A. 4 B. $\frac{1}{2}$
C. $\frac{3}{5}$ D. 6
56. A train travels for $5\frac{1}{2}$ hours, the first half of the distance at 60 km/h and the other half at 20 m/sec. The total distance (in km) travelled is:
- A. 300 B. 240
C. 360 D. 250
- 57.

The value of $\frac{\frac{8}{3} \div \frac{3}{5} \times \frac{7}{5}}{\frac{5}{3} \div \frac{5}{7} \times \frac{8}{9}} \div 15$ is:

- A. $\frac{1}{5}$ B. $\frac{1}{2}$
C. $\frac{1}{4}$ D. $\frac{1}{3}$
58. The cost price of an article is Rs.214. After allowing three successive discounts of 15%, 20% and 10% on its list price, it is sold for Rs.153 . If it is sold at the list price, then the profit (in Rs.) will be:
A. 49 B. 36
C. 39 D. 45
59. Amit borrows a sum of Rs.8,000 at 10% p.a. compound interest for 4 years. He repays Rs.2,800 at the end of the first year and Rs.2,600 at the end of the second year. To clear the loan, how much should he pay after 4 years, interest being compounded yearly?
A. Rs.4,800 B. Rs.4,880
C. Rs.4,840 D. Rs.4,780
60. A sum of Rs. x is divided between A, B, C and D such that the ratio of the shares of A and B is 3 : 2, that of B and C is 9 : 8 and that of C and D is 4 : 3. If the difference between the shares of B and D is Rs.708, then what is the value of x ?
A. 8,732 B. 8,496
C. 8,850 D. 8,614
61. The average of the 4-digit numbers 1244, 2345, 33x3 and 4x38 is 2925. What is the average of $(5x + 3)$ and $(9x - 5)$?
A. 41 B. 42
C. 48 D. 55
62. X and Y can complete a certain work in 16 days and 24 days, respectively. They work together for 4 days. Z alone completes the remaining work in $10\frac{1}{2}$ days. Y and Z together can complete $\frac{7}{8}$ th part of the same work in:
A. 10 days B. 8 days
C. 9 days D. 12 days
63. Let x be the smallest 5-digit number such that when it is divided by 5, 6, 7 and 21, it leaves the same remainder 4. What is the sum of the digits of x ?
A. 11 B. 13

- C. 10 D. 17

64. A certain sum amounts to Rs.15,748 in 3 years at $r\%$ p.a. simple interest. The same sum amounts to Rs.16,510 at $(r + 2)\%$ p.a. simple interest in the same time. What is the value of r ?
A. 8 B. 8.5
C. 9.5 D. 9

65. Five men and 2 women can do a piece of work in 9 days, whereas 11 men and 5 women can do the same work in 4 days. To complete the same work in 6 days, the number of women required is:
A. 20 B. 18
C. 15 D. 16

66. When Sulekha sells an article for Rs.870, she earns a profit (in Rs.) which is equal to twice the loss (in Rs.) she incurs on selling it for Rs.450. To earn a profit of 15%, she should sell the article for (in Rs.):
A. 667 B. 690
C. 676.50 D. 678.50

67. A shopkeeper buys 60 oranges at 10 for Rs.72, and an equal number at 12 for Rs.90. He spends Rs.118 on the transaction and sells all the oranges that he buys. If there is a profit of 26% in the entire transaction, then what is the selling price of 32 oranges?
A. Rs.336 B. Rs.313.60
C. Rs.316.80 D. Rs.320

68. The area of a triangular park with sides 78 m, 160 m and 178 m is equal to the area of a rectangular garden whose sides are in the ratio of 13 : 12. The smaller side (in m) of the garden is:
A. $26\sqrt{5}$ B. $24\sqrt{10}$
C. $12\sqrt{10}$ D. $13\sqrt{5}$

69. The value of $16 - 4 \times [4 - \{98 \div 2 \text{ of } 7 - (6 - 36 \div 6 \times 2)\}]$ is:
A. 38 B. 40
C. 52 D. 42

70. Riya spends $66\frac{2}{3}\%$ of her income. If her income increases by 16% and savings increase by 17%, then her expenditure increases by:
A. 33% B. 12.8%
C. 16.2% D. 15.5%

71. The speed of a boat downstream is 2.5 times the speed of the boat upstream. If the time taken by the boat for going 30 km downstream and the same distance upstream is 7 hours, then what is the speed (in km/h)?

of the boat downstream?

- A. 12.5
- B. 9
- C. 15
- D. 7.5

72. A sum was invested at simple interest at $x\%$ p.a. for $2\frac{1}{2}$ years. Had it been invested at $(x + 3)\%$ for the same time, it would have fetched Rs.585 more. The simple interest on the same sum for $4\frac{2}{3}$ years at 14% p.a. is:
- A. Rs.5,096
 - B. Rs.5,460
 - C. Rs.4,732
 - D. Rs.4,900
73. In a group of 108 persons, the ratio of the number of males and females is 5 : 4. The average height of the males is 158.7 cm and that of the females is x cm. If the average height of all the persons in the group is 155.5 cm, then the value of x is:
- A. 151.5
 - B. 150.8
 - C. 152.2
 - D. 153.4
74. A dealer bought an article at 10% discount on its marked price, and sold it at a price which was 15% above the marked price. The gain per cent (correct to the nearest integer) is:
- A. 33%
 - B. 35%
 - C. 25%
 - D. 28%
75. When x is subtracted from each of 24, 33, 20 and 26, the numbers so obtained in this order are in proportion. What is the mean proportional between $(2x + 1)$ and $(5x - 11)$?
- A. 20
 - B. 42
 - C. 30
 - D. 35
76. The Constitution of India adopted many institutional details and procedures from the:
- A. Government of India Act, 1935
 - B. Indian Partnership Act, 1932
 - C. Indian Registration Act, 1930
 - D. Indian Companies Act, 1930
77. Which bacterium is responsible for peptic ulcers?
- A. Helicobacter pylori
 - B. Campylobacter
 - C. Bacillus cereus
 - D. Escherichia coli
78. The Mughals were descendants of:
- A. Ghiyasuddin Balban
 - B. Genghis Khan
 - C. Mir Jumla
 - D. Muhammad Tughluq

99. The Governor of the Reserve Bank of India as of August 2020 was:

 - A. Shaktikanta Das
 - B. Manish Sabharwal
 - C. Natarajan Chandrasekaran
 - D. Mahesh Kumar Jain

100. Who was the Chairperson of the sports committee for the National Sports Award 2020?

 - A. Colonel Rajyavardhan Singh Rathore
 - B. Justice Mukundakam Sharma
 - C. Alok Sinha
 - D. Virendra Sehwag

Solutions

1. D

- Sol. Mobile: something that is not fixed in one place and can be moved easily and quickly.
Potable: safe to drink.
Briefcase: a flat case used for carrying papers and documents.
Portable: something that is easy to carry or to move.

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

2. C

- Sol. The sentence is grammatically incorrect, and the error lies in **option C**. The error is related to **Verb**.
* “Make”, “Let” and “Have” takes “object + bare infinitive”.

For example:

The official **made me fill** in a form.

The headmaster **let the pupils go** home early.

* In the given sentence, we have erroneously used “to + infinitive” (i.e. “to do”) structure after the verb “made”. Thus, bare infinitive i.e. “do” should be used in place of “to do”.

* Hence, “**My father made me do**” is the correct substitution.

Thus, the correct sentence will be:

My father made me do the French grammar exercise again and again.

3. C

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

* Subjective case of pronoun is used as complement.

For example:

It was **he** who told me about the project.

It was **she** who first introduced the pleasures of skiing to me.

* In the given sentence, we have erroneously used the objective case of pronoun “Her” as a complement. Thus, the subjective case pronoun “she” should be used in place of “her”.

* Hence, “**It was she**” is the correct substitution.

Thus, the correct sentence will be:

It was she who represented our school in the interschool debate competition.

4. D

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

Juicy = containing a lot of juice and good to eat.

E.g.: The birds come searching for **juicy** worms and grubs.

Oily = containing or covered with oil.

Dewy = wet with dew.

Watery = of or like water; containing a lot of water.

Dry = not wet or sticky; without water or moisture.

E.g.: Store onions in a cool **dry** place.

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

5. B

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

* Underlined part needs correction in modal verb.

* Modal verb “May” and “Might” both are used to say that something is possibly true.

* In case of modal verb to show the sense of past, we use “**modal verb + have + past participle**”. Past equivalent form of Modal verb is used in this structure.

For example:

The letter **might have arrived** yesterday.

* The given clause (“My uncle...last night”) of the sentence is set in past tense because time word “last night” is used. But we have erroneously used “May” as a modal verb instead of “Might” (a past equivalent form). Thus, “Might” should be used in place of “May”.

* Also, “have + past participle” is used after “Might” to show the completion of action in the past. Thus, “have come” should be used.

Note: “Came” is the second form of verb “come” whereas “Come” is the third form or past participle form of verb “Come”.

* Hence, “**might have come**” is the correct substitution.

Thus, the correct sentence will be:

My uncle and his family might have come late last night, but I am not sure.

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

6. D

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

* Underlined part needs correction in verb.

* “Everybody” as a subject takes the singular form of verb after it.

For example:

Everybody **laughs** at my handwriting.

Everybody **makes** a mistake once in a while.

* In the underlined part, we need a verb in its singular form because “Everybody” is a subject. But we have erroneously used the continuous form of verb i.e. “respecting”. Also, the use of continuous form does not make sense when sentence does not demand an action that is currently in progress. Thus, singular verb “respects” should be used in place of “respecting”.

* Hence, “**respects**” is the correct substitution.

Thus, the correct sentence will be:

Everybody respects her because she is so sincere.

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

7. B

Sol. The idiom “**To go nuts**” means to become crazy or insane.

Example: The fans **went nuts** when the team won champions trophy.

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

8. D

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

* Underlined part needs correction in verb.

* As per the Subject Verb agreement, verb should be in accordance with the subject. A singular verb should be used with a singular subject whereas a plural verb should be used with a plural subject.

For example:

Schools are among the biggest customers for this service.

The school is widely admired for its excellent teaching.

- * In the underlined part, we have erroneously used plural helping verb (were) for the singular subject “earth”. Thus, as per the Subject Verb agreement, singular helping verb “was” should be used in place of plural helping verb “were”.
- * Hence, “**was**” is the correct substitution.

Thus, the correct sentence will be:

In earlier times, there were many who thought that the earth was flat rather than round.

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

9. B

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

Stiff = difficult to bend or move.

E.g.: Scrub away any residue with a **stiff** brush.

Strong = having a lot of physical power so that you can lift heavy weights, do hard physical work, etc.

Tender = (of meat or vegetables) easy to cut or chew (= crush with the teeth)

E.g.: My steak was beautifully **tender**.

Rigid = very strict and difficult to change.

Tight = held or fixed in position securely.

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

10. C

Sol.

Let us understand the meaning of the given words:-

- * To = (preposition) in the direction of something.
- * With = (preposition) in the company or presence of someone/something
- * For = (preposition) in connection with someone/something.
- * Of = (preposition) being a part of something.

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

- * "To" as a preposition is used to show in the direction of something. Thus, option A is incorrect.
- * "With" as a preposition is used to show "in the company or presence of someone/something". Thus, option B is incorrect.
- * "Of" as a preposition is used to show something being a part of something else. Thus, option D is incorrect.
- * "For" as a preposition is used in connection with someone/something. Here in the given sentence, it is used to establish the connection of verb "was prepared" with "tragic news". It mentions villagers' unpreparedness in terms of their response to the "tragic news".

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

Thus, the correct sentence will be:

Nobody in the village was prepared for the tragic news.

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

11. B

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

- * Simply = (adverb) used to emphasize how easy or basic something is.
- * Seriously = (adverb) in a serious (bad or dangerous) way.
- * Hardly = (adverb) almost not.
- * Directly = (adverb) with nobody or nothing in between.

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

- * "Simply" as an adverb is used to emphasize how easy or basic something is. Thus, option A is incorrect.
- * "Hardly" as an adverb is used to show "almost not". Thus, option C is incorrect.
- * "Directly" as an adverb is used to show the sense of "with nobody or nothing in between". Thus, option D is incorrect.
- * "Seriously" as an adverb is used to show "in a serious (bad or dangerous) way". Here in the given sentence, it is used to qualify the verb "injured" and thus shows how bad or dangerous it was.

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

Thus, the correct sentence will be:

He was seriously injured, but recovered very soon.

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

12. C

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

Breezy = wind blowing quite strongly.

E.g.: The weather at the seaside was idea- bright and **breezy**.

Dusty = full of dust.

Humid = climate that is warm and slightly wet.

Airy = with plenty of fresh air because there is a lot space.

E.g.: Dry the seeds in a cool, **airy** place.

Noisy = making a lot of noise.

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

13. A

Sol. The idiom "**To be on a roll**" means to be experiencing or going through a period of success at what you are doing.

Example: Don't stop me now. I am **on a roll!**

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

14. A

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

Pompous = showing that you think you are more important than other people, especially by using long and formal words.

E.g.: Her speech sounded very **pompous** and self-congratulatory.

Boastful = talking about yourself in a very proud way.

E.g.: We tried to emphasize our good points without sounding **boastful**.

Dull = not interesting or exciting.

Humble = showing you do not think that you are as important as other people.

Modest = not very large, expensive, important etc.

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

15. D

Sol. Dowry: money and/or property that, in some societies, a wife or her family must pay to her husband when they get married.

Closet: a small room or space in a wall with a door that reaches the floor, used for storing things.

Attire: clothes, especially fine or formal ones.

Wardrobe: the collection of clothes a person has.

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

16. A

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

“Fulfil” is the correct spelling of the incorrect word “Fullfil”. It means to do or achieve what was hoped for or expected.

The meaning of other words are:

Futile: pointless.

Fuse: a small wire or device inside a piece of electrical equipment that breaks and stops the current if the flow of electricity is too strong.

Furl: to roll and fasten something such as a sail, a flag.

17. C

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

* Omission = (noun) the act of not including someone/something or not doing something.

* Acceptance = (noun) the act of accepting a gift, an invitation, an offer etc.

* Exception = (noun) a person or thing that is not included in a general statement.

* Impression = (noun) an idea, a feeling or an opinion that you get about someone/something.

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

* “Omission” as a noun means the act of not including someone/something. Thus, option A is incorrect.

* “Acceptance” as a noun means the act of accepting a gift, an invitation etc. Thus, option B is incorrect.

* “Impression” as a noun means an idea, a feeling or an opinion that someone gets about someone/something. Thus, option D is incorrect.

* “Without exception” is used to emphasize that the statement someone is making is always true and everyone/everything is included. Here in the given sentence, it is used to mention that every person that took part in the voting process voted in favour of a holiday.

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

Thus, the correct sentence will be:

Everyone without exception voted for a holiday.

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

18. B

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

* “Except (for)” as a preposition is used to talk about an exception. It is used before the only thing or person about which a statement is not true.

For example:

I hate fish. I can eat anything **except** fish.

Everyone was there **except** Rohan.

Note: Use of “for” with “except” is optional.

* “Excepting” is also a preposition. It also means “except for” or “apart from”.

For example:

The sanctions ban the sale of any products **excepting** medical supplies and food.

* In the given sentence, we have erroneously used “for” after preposition “excepting”. Thus, if we want to retain “for” then we should use preposition “except for” OR if we want to remove “for” then we should use preposition “excepting”.

* Hence, either “**except for**” OR “**excepting**” is the correct substitution.

Note: Use of “for” with “except” is optional.

Thus, the correct sentence will be:

Your essay is good except for the spelling.

OR

Your essay is good except the spelling.

OR

Your essay is good excepting the spelling.

19. A

Sol.

Let's find out the correct fit for the blank:

- * “In case of” means if something happens. Thus, option C is incorrect.
- * “In order to” means with the purpose or intention of doing or achieving something. Thus, option D is incorrect.
- * “Although”, “even though”, “despite”, and “in spite of” can all be used to express the same thing. In other words, they have the same meaning. “Although” and “even though” are conjunctions, but “despite” and “in spite of” are considered prepositions.
- * After “in spite of” and “despite”, we use a noun, gerund (-ing form of a verb) or a pronoun.
- * After “although” and “even though”, we use a subject and a verb.
- * In the given sentence, we have a noun after the blank. Thus, “in spite of” is appropriate here.
- * “In spite of something” means if you say someone did something “in spite of a fact” means it is surprising that fact did not prevent them from doing it. Here in the given sentence, it is used before the noun phrase “repeated warnings”. It shows that “repeated warnings” did not prevent the action of “coming late”.

Thus, “In spite of” becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

In spite of repeated warnings, he still comes late.

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

20. D

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

“Divide” is the correct spelling of the incorrect word “Devide”. It means to separate into parts.

The meaning of other words are:

Divine: coming from or connected with God.

Devote: to give most of your time, energy, and attention to someone/something.

Dive: to jump into water with your head and arms going in first.

21. A

Sol. The given passage is about “**Narration of events that occurred during sailing**”.

“Whatever” is used to say that it does not matter what someone does, or what happens because the result will be the same. Thus, option B is wrong.

“However” is used to introduce a statement that contrasts with something that has just been said. Thus, option C is wrong.

“Somewhere” means a place that you do not know or do not mention by name. Thus, option D is wrong.

“Wherever” as a conjunction means “in any place”. In the given sentence, it is used to mention that “in any place” narrator and his colleagues landed, they found people (merchants and clients) that were keen to do business with them.

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

22. B

Sol. The given passage is about “**Narration of events that occurred during sailing**”.

“Do” is the first form of verb that is used to refer to actions that you do not mention by name or do not know about. Thus, option A is wrong.

“Doing” is the continuous form of verb “do”. Thus, option C is wrong.

“To doing” is a “to + participle” structure. Thus, option D is wrong.

“To do” is a “to + infinitive” structure of verb. It is used to show the purpose. Here in the given sentence, it is used to show the purpose i.e. “business”.

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

23. A

Sol. The given passage is about **“Narration of events that occurred during sailing”**.

“Any” as a determiner is used with uncountable or plural nouns in negative sentences and questions. Thus, option B is wrong.

“An” as an indefinite article is used before the countable nouns (having vowel sounds) that have not been mentioned before. Thus, option C is wrong.

“The” is a definite article. It is used before the nouns that are specific. Thus, option D is wrong.

“A” as an indefinite article is used before the countable nouns (having consonant sounds) that have not been mentioned before. In the given sentence, it is used as per the consonant sound of the adjective (“peaceful”) of noun (“island”). Noun “island” is not mentioned before in the passage.

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

24. A

Sol. The given passage is about **“Narration of events that occurred during sailing”**.

“People” as a noun means human beings. Thus, option B is wrong.

“Persons” as a noun means a human as an individual. But it does shows the sense of “humans living in a particular area”. Thus, option C is wrong.

“Individuals” as a noun means a person considered separately rather than as part of a group. Thus, option D is wrong.

“Inhabitants” as a noun means a person or an animal that lives in a particular place. In the given sentence, it is used to mention that there were no signs that show the presence of humans in a peaceful island.

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

25. D

Sol. The given passage is about “**Narration of events that occurred during sailing**”.

“Colours” is a plural form of noun “colour”. It means the appearance that things have that results from the way in which they reflect light. Thus, option A is wrong.

“Colour” is a singular form of a noun. Thus, option B is wrong.

“Colouring” is the continuous form of verb “colour”. It means to put colour on something using paint, coloured pencils, etc. Thus, option C is wrong.

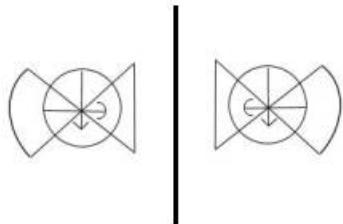
“Coloured” as an adjective means having a particular colour or different colours. In the given sentence, it is used to qualify the noun “birds” to reflect the presence of different colours on their body. Also, the adverb “brightly” is used for the adjective “coloured” to show that colours reflected a lot of light.

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

26. A

Sol. In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect it results from reflection of substances such as a mirror or water.

Mirror



Hence, option A is the correct answer.

27. C

Sol. Let A=1, B=2, C=3,.....Z=26

as,

$$\text{RELICS} = 18 + 5 + 12 + 9 + 3 + 19 = 66$$

$$\text{now, } (66 - \text{number of letters in RELICS}) * 2$$

$$= (66 - 6) * 2$$

$$= 60 * 2 = 120$$

and

$$\text{BASTION} = 2 + 1 + 19 + 20 + 9 + 15 + 14 = 80$$

$$\text{now, } (80 - \text{number of letters in BASTION}) * 2$$

$$= (80 - 7) * 2$$

$$= 73 * 2 = 146$$

similarly,

$$\text{DISTANT} = 4 + 9 + 19 + 20 + 1 + 14 + 20 = 87$$

$$\text{now, } (87 - \text{number of letters in DISTANT}) * 2$$

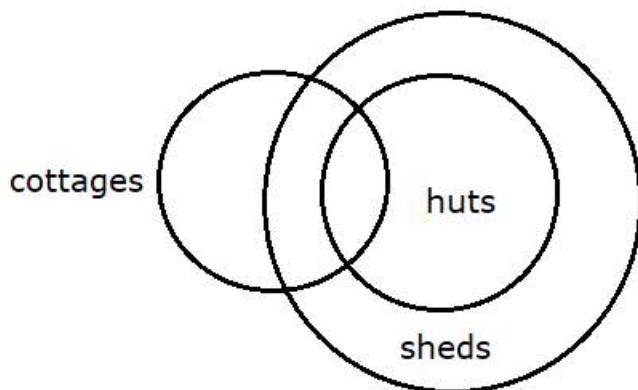
$$= (87 - 7) * 2$$

$$= 80 * 2 = 160$$

Hence, option C is the correct answer.

28. B

Sol. Minimum Possible diagram is-



Conclusions:

- I. Some sheds are cottages. (It follows because Some cottages are huts and All huts are sheds.)
- II. No shed is a cottage. (It does not follow because Some cottages are huts and All huts are sheds.)

So, only conclusion I follows.

Hence, option B is the correct answer.

29. C

Sol. As,

$$(32-28)*3=4*3=12$$

Similarly,

$$(24-21)*3=3*3=9$$

Hence, option C is the correct answer.

30. A

Sol. Let A=26, B=25, C=24,.....Z=1

as,

$$\text{GOD} = 20 + 12 + 23 = 55$$

and

$$\text{MAKE} = 14 + 26 + 16 + 22 = 78$$

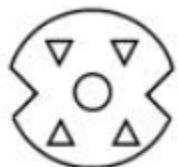
similarly,

$$\text{BYTE} = 25 + 2 + 7 + 22 = 56$$

Hence, option A is the correct answer.

31. B

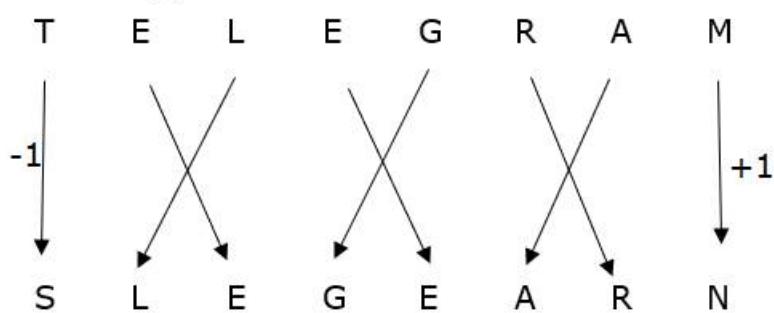
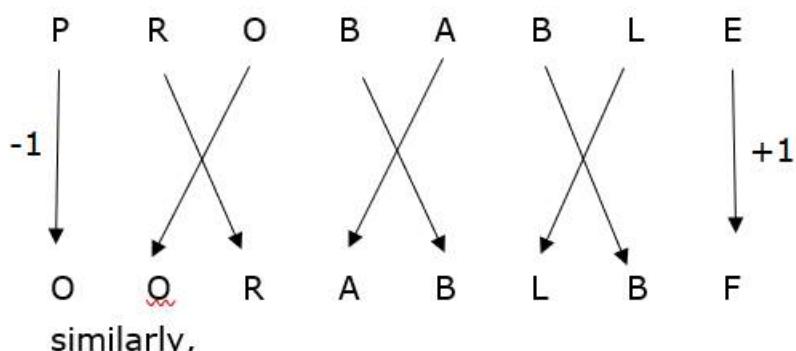
Sol. As given in the figure, we need to fold it in the given manner and Option B would appear when unfolded.



Hence, option B is the correct answer.

32. B

Sol. as,



Hence, option B is the correct answer.

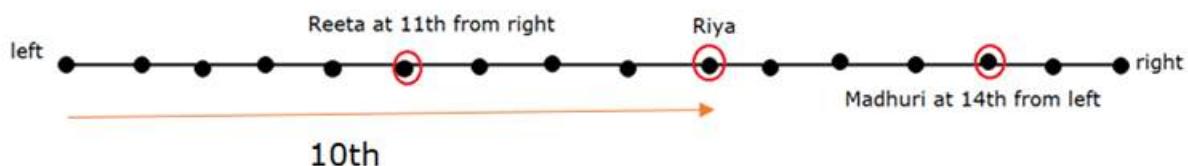
33. C

Sol. There are 16 students in the row.

Reeta is 11th from the right and Madhuri is 14th from the left.

Riya is exactly in the middle of Reeta and Madhuri.

So, we get:



Riya's position from the left=10th from left

Hence, option C is the correct answer.

34. C

Sol. **By checking option A:**

$$12 + 4 - 4 \div 2 = 3$$

After interchanging:

$$12 \div 4 - 4 + 2 = 3$$

$$\text{or, } 3 - 4 + 2 = 3$$

$$\text{or, } 1=3$$

so, its not correct option.

By checking option B:

$$9 \div 9 - 9 + 9 = 9$$

After interchanging:

$$9 + 9 - 9 \div 9 = 9$$

or, $9 + 9 - 1 = 9$

or, $17=9$

so, its not correct option.

By checking option C:

$$16 \div 4 - 10 + 2 = 15$$

After interchanging:

$$16 + 4 - 10 \div 2 = 15$$

or, $20 - 5 = 15$

or, $15=15$

so, its correct option.

as, we found the correct answer, so no need to check more options.

Hence, option C is the correct answer.

35. D

Sol. pattern is:

$$18*2-10=36-10=26$$

$$26*2-10=52-10=42$$

$$42*2-10=84-10=74$$

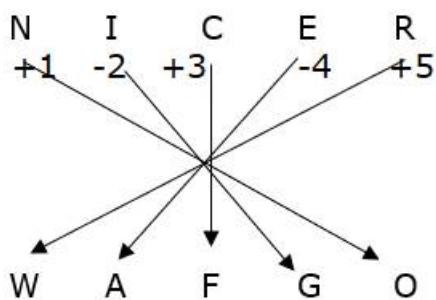
$$74*2-10=148-10=138$$

$$138*2-10=276-10=266$$

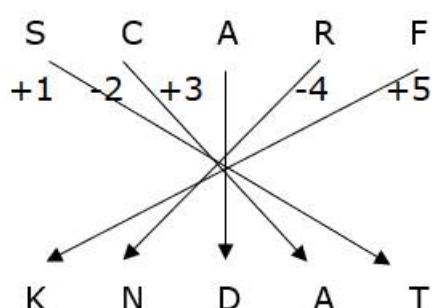
Hence, option D is the correct answer.

36. B

Sol. As,



Similarly,



Hence, option B is the correct answer.

37. B

Sol. i. One of the days was a holiday.

ii. Psychology was on the previous day of the holiday.

Psychology

Holiday

iii. The course ended with History.

Sunday=History

iv. Economics, which was taken up on Wednesday, was on the previous day of Physics.

Wednesday=Economics

Thursday=Physics

v. Psychology and Philosophy had a gap of two days.

Psychology/ Philosophy

—
—
Psychology/ Philosophy

vi. There was gap of one day between Sociology and Economics.

Sociology/Economics

—
Sociology/Economics

vii. There was gap of two days between Sociology and Physics.

Sociology/Physics

—
—
Sociology/Physics

So, final arrangement is:

Days	Subjects
Monday	Sociology
Tuesday	Philosophy
Wednesday	Economics
Thursday	Physics
Friday	Psychology
Saturday	Holiday
Sunday	History

So, Holiday was on Saturday.

Hence, option B is the correct answer.

38. D

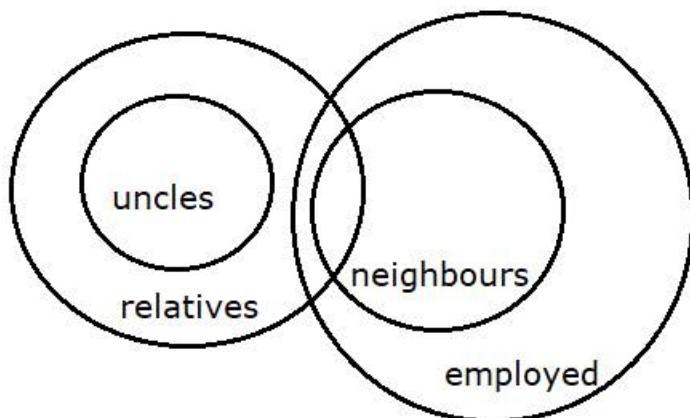
Sol. As, food list in restaurant is called as Menu.

Similarly, books list in Library is called as Catalogue.

Hence, option D is the correct answer.

39. C

Sol. Minimum Possible diagram is-



Conclusions:

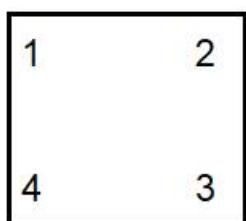
- I. Some neighbours are uncles. (It does not follow as its just a possibility, but not surely.)
- II. Some uncles are employed. (It also does not follow as its just a possibility, but not surely.)
- III. Some relatives are employed.(It follows as Some relatives are neighbours and All neighbours are employed.)

So, Only conclusion III follows.

Hence, option C is the correct answer.

40. C

Sol.

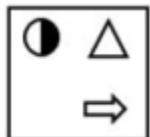


Moving order of \bullet is: 1 4 3 2 1

Moving order of Δ is: 2 3 4 1 2

Moving order of \Rightarrow is: 3 2 1 4 3

so, the next figure is-



Hence, Option C is the correct answer.

41. C

Sol. i. D is to the immediate left of F.

D F

ii. A is to the immediate left of G.

A G

iii. E and G have two boys between them.

E/G _ _ E/G

iv. B is between D and G.

D/G B D/G

From above we get,

E _ A G B D F

So, final arrangement is:



Therefore, G is standing exactly in the middle.

Hence, option C is the correct answer.

42. C

Sol. As, Inventor needs to have great imagination to invent new things.

Similarly, Teacher needs to have great knowledge to teach students..

Hence, option C is the correct answer.

43. B

Sol. **By checking option A:**

$$25 - 15 \div 5 \times 10 + 20 = 35$$

After interchanging:

$$25 \times 15 \div 5 - 10 + 20 = 35$$

$$\text{or, } 25 \times 3 - 10 + 20 = 35$$

$$\text{or, } 75 - 10 + 20 = 35$$

$$\text{or, } 85=35$$

so, its not correct option.

By checking option B:

$$25 - 15 \div 5 \times 10 + 20 = 35$$

After interchanging:

$$25 + 15 \div 5 \times 10 - 20 = 35$$

$$\text{or, } 25 + 3 \times 10 - 20 = 35$$

$$\text{or, } 25 + 30 - 20 = 35$$

$$\text{or, } 35=35$$

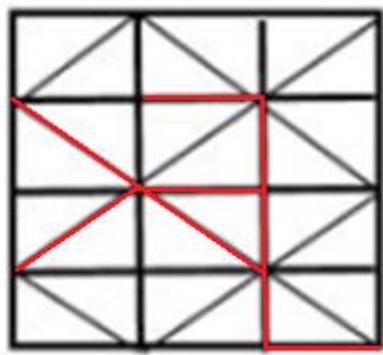
so, its correct option.

as, we found the correct answer, so no need to check more options.

Hence, option B is the correct answer.

44. B

Sol. After carefully observing the figures given in the question and answers, it is very clear that the given question figure is embedded in the answer figure. It is shown as given below:



Hence, option B is the correct answer.

45. C

Sol. Logic: arrange first half in reverse order and second half in forward order.
as,

FRATE RNIZE = TRFEA EINRZ

similarly,

PHOTO GRAPH = TPOOH AGHPR

Hence, option C is the correct answer.

46. A

Sol. pattern is:

$$13+7=20$$

$$20+10=30$$

$$30+15=45$$

$$45+23=68$$

$$68+35=103$$

$$\mathbf{103+52=155}$$

$$155+75=230$$

Now,

$$7+3=10$$

$$10+5=15$$

$$15+8=23$$

$$23+12=35$$

$$35+17=52$$

$$52+23=75$$

Now,

$$3+2=5$$

$$5+3=8$$

$$8+4=12$$

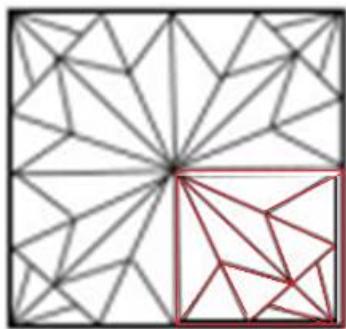
$$12+5=17$$

$$17+6=23$$

Hence, option A is the correct answer.

47. B

Sol. Complete figure is:

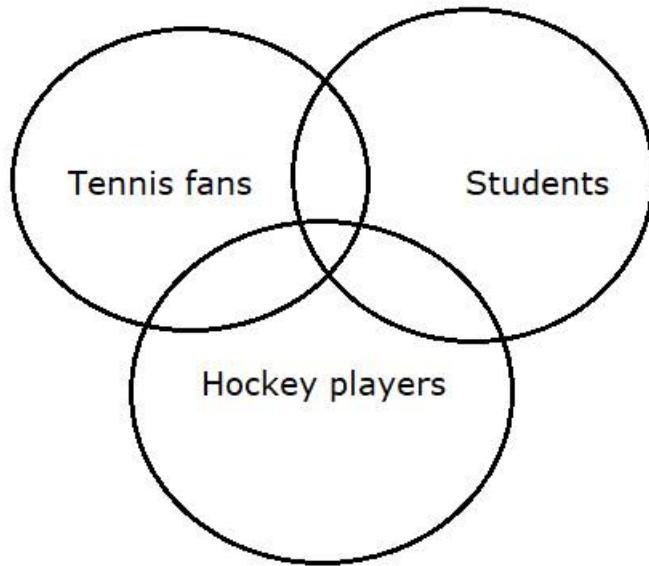


Hence, option B is the correct answer.

48. A

Sol. All Tennis fans, Students and Hockey players are mutual to each other.

So, the best representation is:



Hence, option A is the correct answer.

49. B

Sol. The product of the digits on the RHS is equal to twice the number on the LHS.

$$6 \times 5 = 30 \text{ and } 15 \times 2 = 30$$

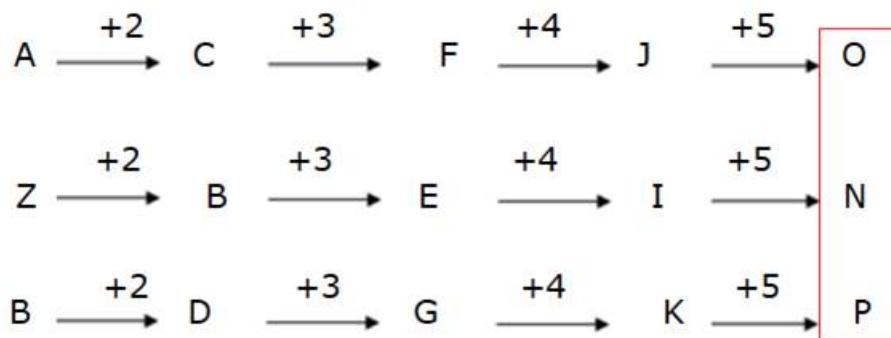
Similarly,

$$2 \times 8 = 16 \text{ and } 8 \times 2 = 16$$

Hence, option B is the correct answer.

50. A

Sol. pattern is:



Hence, option A is the correct answer.

51. B

Sol. Let the radius be r

$$\text{Then, new radius} = \left(1 + \frac{\frac{16}{3}}{100}\right)r = \left(1 + \frac{50}{300}\right)r = \frac{7}{6}r$$

$$\text{Percentage increase in surface area} = \left(\frac{\text{new surface area} - \text{old surface area}}{\text{old surface area}} \right) \times 100$$

$$= \left(\frac{4\pi \left(\frac{7}{6}r\right)^2 - 4\pi r^2}{4\pi r^2} \right) \times 100$$

$$= \left(\frac{\frac{49}{36} - 1}{1} \right) \times 100$$

$$= \left(\frac{49 - 36}{36} \right) \times 100$$

$$= 36.11 \%$$

Hence, option B is the correct answer.

52. D

Sol.

$$\begin{aligned}\text{Central angle of expenditure in 2016} &= \left(\frac{\text{expenditure in 2016}}{\text{total expenditure}} \right) \times 360 \\ &= \left(\frac{350}{210 + 300 + 350 + 450 + 490} \right) \times 360 \\ &= \frac{350}{1790} \times 360 \\ &= 70.39^\circ\end{aligned}$$

Hence, option D is the correct answer.

53. A

Sol. Average expenditure in 2014, 2016 and 2018 = $\frac{210 + 350 + 490}{3} = 350$

Required revenue = $1.2 \times 350 = 420$ crore

2016 has revenue of 420 crore

Hence, option A is the correct answer.

54. B

Sol. Total revenue in 2014, 2015 and 2018 = $275 + 350 + 527 = 1152$

Total expenditure in 2016 and 2017 = $350 + 450 = 800$

$$\text{Required percentage} = \left(\frac{1152 - 800}{800} \right) \times 100 = 44\%$$

Hence, option B is the correct answer.

55. A

Sol. $\frac{4}{5} \times 1 \frac{1}{9} \div \frac{8}{15} + \left(5 \frac{1}{4} \div \frac{3}{7} \text{ of } \frac{1}{4} \times \frac{2}{7} \right) \div 5 \frac{3}{5} - \frac{1}{4} \div \frac{3}{2}$

$$= \frac{4}{5} \times \frac{10}{9} \div \frac{8}{15} + \left(\frac{21}{4} \div \frac{3}{28} \times \frac{2}{7} \right) \div \frac{28}{5} - \frac{1}{4} \div \frac{3}{2}$$

$$= \frac{4}{5} \times \frac{10}{9} \div \frac{8}{15} + 14 \div \frac{28}{5} - \frac{1}{4} \div \frac{3}{2}$$

$$= \frac{5}{3} + \frac{5}{2} - \frac{1}{6}$$

$$= \frac{10 + 15 - 1}{6}$$

$$= \frac{24}{6} = 4$$

Hence, option A is the correct answer.

56. C

Sol. Let the total distance be d.

$$\text{Speed in other half of distance} = \frac{20 \times \frac{18}{5}}{2} = 72 \text{ km/h}$$

According to question,

$$\frac{d}{2 \times 60} + \frac{d}{2 \times 72} = \frac{1}{2}$$

$$\Rightarrow \frac{d}{24} \left(\frac{1}{5} + \frac{1}{6} \right) = \frac{1}{2}$$

$$\Rightarrow \frac{d}{12} \left(\frac{5+6}{30} \right) = \frac{1}{2}$$

$$\Rightarrow d = 360 \text{ km}$$

Hence, option C is the correct answer.

57. A

$$\begin{aligned} \text{Sol. } & \frac{8}{3} \div \frac{3}{5} \times \frac{7}{5} \\ & \frac{5}{3} \div \frac{5}{7} \times \frac{8}{9} \\ & = \frac{40}{9} \times \frac{7}{5} \div 15 \\ & = \frac{1}{3} \times \frac{8}{9} \end{aligned}$$

$$\begin{aligned} & \frac{56}{56} \div 15 \\ & = \frac{1}{27} \end{aligned}$$

Hence, option A is the correct answer.

58. B

Sol. Let the list price be Rs. y.

According to question,

$$y \left(\frac{100 - 15}{100} \right) \left(\frac{100 - 20}{100} \right) \left(\frac{100 - 10}{100} \right) = 153$$

$$\Rightarrow y \times \frac{17}{20} \times \frac{4}{5} \times \frac{9}{10} = 153$$

$$\Rightarrow y = 250$$

So, profit = list price – cost price = 250 – 214 = Rs. 36

Hence, option B is the correct answer.

59. C

Sol.

$$\text{Remaining amount at the end of 1}^{\text{st}} \text{ year} = \left(\frac{100+10}{100} \right) 8000 - 2800 \\ = 8800 - 2800 = 6000$$

$$\text{Remaining amount at the end of 2}^{\text{nd}} \text{ year} = \left(\frac{100+10}{100} \right) 6000 - 2600 \\ = 6600 - 2600 = 4000$$

$$\text{So, amount after 4 year} = \left(\frac{100+10}{100} \right)^2 4000$$

$$= \frac{121}{100} \times 4000 = 4840$$

Hence, option C is the correct answer.

60. D

Sol. Calculation of ratio of A, B, C and D

$$\begin{array}{ccccccc} A & : & B & : & C & : & D \\ 3 & : & 2 & & & & \times 9 \\ & & 9 & : & 8 & & \times 2 \\ & & & & 4 & : & 3 \\ \hline 27 & : & 18 & : & 16 & : & 12 \end{array}$$

Therefore, the ratio of A, B, C and D is 27 : 18 : 16 : 12

$$\text{Sum of ratios} = 27 + 18 + 16 + 12 = 73$$

$$\text{Sum (x)} =$$

$$\text{Difference between the shares of B and D} \times \frac{\text{Sum of ratios}}{\text{Difference between ratios of B and D}} \\ = 708 \times \frac{73}{18-12} = 708 \times \frac{73}{6} \\ = \text{Rs. } 8614$$

Hence, option D is the correct answer.

61. C

Sol. Given:

$$\text{Average of the 4-digit numbers } 1244, 2345, 33 \times 3 \text{ and } 4 \times 38 = 2925$$

Sum of all 4 numbers = 2925×4

$$\Rightarrow 1244 + 2345 + 33x3 + 4x38 = 11700$$

$$\Rightarrow 3589 + 3300 + 10x + 3 + 4000 + 100x + 38 = 11700$$

$$\Rightarrow 110x = 11700 - 10930$$

$$\Rightarrow 110x = 770$$

$$\Rightarrow x = 770/110 = 7$$

Now, average of $(5x + 3)$ and $(9x - 5)$

$$= \frac{5 \times 7 + 3 + 9 \times 7 - 5}{2} = \frac{35 + 3 + 63 - 5}{2}$$

$$= \frac{96}{2} = 48$$

Hence, option C is the correct answer.

62. C

Sol. Let the total work be $144x$ units.

Then, efficiency of X = $144x/16 = 9x$ units/day

And efficiency of Y = $144x/24 = 6x$ units/day

Work done by X and Y in 4 days = $(9x + 6x) \times 4 = (15x) \times 4 = 60x$ units

Remaining work (done by Z in $10\frac{1}{2}$ days) = $144x - 60x = 84x$ units

Therefore, efficiency of Z = $84x/10.5 = 8x$ units/day

Combined efficiency of Y and Z = $6x + 8x = 14x$ units/day

Time taken by Y and Z to complete $\frac{7}{8}$ th part of the same work

$$= (144x) \times \frac{7}{8} \times \frac{1}{14x} = 9 \text{ days}$$

Hence, option C is the correct answer.

63. B

Sol. LCM of 5, 6, 7 and 21 = 210

The number must be in the form of $210x + 4$.

Therefore, such a smallest five-digit number will be $210 \times 48 + 4$

$$= 10084$$

$$\text{Sum of digits of } 10084 = 1 + 0 + 0 + 8 + 4 = 13$$

Hence, option B is the correct answer.

64. A

Sol. Let the sum be Rs. x.

Then, as per question,

$$[(x) + (x) \times 3 \times (r + 2)\%] - [(x) + (x) \times 3 \times (r)\%] = 16510 - 15748$$

$$\Rightarrow 0.03xr + 0.06x - 0.03xr = 762$$

$$\Rightarrow 0.06x = 762$$

$$\Rightarrow x = 762/0.06 = 12700$$

Now,

$$(x) + (x) \times 3 \times (r)\% = 15748$$

$$\Rightarrow 12700 + 12700 \times 3 \times r\% = 15748$$

$$\Rightarrow 381r = 15748 - 12700$$

$$\Rightarrow r = 3048/381 = 8$$

Hence, option A is the correct answer.

65. B

Sol. Let the efficiency of a man be m units/day and that of a woman be w units/day.

As per question, total work in both cases

$$(5m + 2w) \times 9 = (11m + 5w) \times 4$$

$$\Rightarrow 45m + 18w = 44m + 20w$$

$$\Rightarrow 45m - 44m = 20w - 18w$$

$$\Rightarrow m = 2w$$

$$\text{Now, total work} = (5m + 2w) \times 9$$

$$= (5 \times 2w + 2w) \times 9$$

$$= (10w + 2w) \times 9$$

$$= 12w \times 9 = 108w$$

Number of women required to complete the work in 6 days

$$= 108w/6 = 18w$$

Therefore, 18 women are required to complete the work in 6 days.

Hence, option B is the correct answer.

66. D

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

Then, as per question,

Profit in selling the article for Rs. 870 = $2 \times$ (Loss in selling it for Rs. 450)

$$\Rightarrow (870 - x) = 2 \times (x - 450)$$

$$\Rightarrow 870 - x = 2x - 900$$

$$\Rightarrow 2x + x = 870 + 900$$

$$\Rightarrow 3x = 1770$$

$$\Rightarrow x = 1770/3 = 590$$

Now, sell price to gain 15% = Cost + Profit

$$= 590 + 590 \times 15\% = 590 + 88.5$$

$$= \text{Rs. } 678.50$$

Hence, option D is the correct answer.

67. A

Sol. Cost of 60 oranges (bought at 10 for Rs. 72) = $\frac{60}{10} \times 72$ = Rs. 432

Cost of 60 oranges (bought at 12 for Rs. 90) = $\frac{60}{12} \times 90$ = Rs. 450

Total cost of 120 oranges = 432 + 450 + 118 = Rs. 1000

Total selling price of all 120 oranges (26% profit)

$$= 1000 + 1000 \times 26\% = 1000 + 260 = \text{Rs. } 1260$$

Selling price of 32 oranges = $1260 \times \frac{32}{120}$ = Rs. 336

Hence, option A is the correct answer.

68. B

Sol. Given:

Area of a triangular park with sides 78 m, 160 m and 178 m = The area of a rectangular garden whose sides are in the ratio of 13 : 12.

Since 78, 160 and 178 are Pythagoras triplets.

$$\text{Area of triangular park} = \frac{1}{2} \times 78 \times 160 = 6240 \text{ m}^2$$

Let the larger side of the rectangular garden be $13x$ m

Then, smaller side of the rectangular garden = $(13x) \times \frac{12}{13} = 12x$ m

Now, area of rectangular garden = Area of triangular park

$$\Rightarrow (13x) \times (12x) = 6240$$

$$\Rightarrow 156x = 6240$$

$$\Rightarrow x^2 = 6240/156 = 40$$

$$\Rightarrow x = \sqrt{40} = 2\sqrt{10}$$

Therefore, smaller side of rectangular garden = $12 \times 2\sqrt{10}$

$$= 24\sqrt{10} \text{ m}$$

Hence, option B is the correct answer.

69. C

$$\begin{aligned}\text{Sol. } & 16 - 4 \times [4 - \{98 \div 2 \text{ of } 7 - (6 - 36 \div 6 \times 2)\}] \\&= 16 - 4 \times [4 - \{98 \div 2 \text{ of } 7 - (6 - 6 \times 2)\}] \\&= 16 - 4 \times [4 - \{98 \div 2 \text{ of } 7 - (6 - 12)\}] \\&= 16 - 4 \times [4 - \{98 \div 2 \text{ of } 7 + 6\}] \\&= 16 - 4 \times [4 - \{98 \div 14 + 6\}] \\&= 16 - 4 \times [4 - \{7 + 6\}] \\&= 16 - 4 \times [4 - 13] \\&= 16 - 4 \times [-9] \\&= 16 + 36 \\&= 52\end{aligned}$$

Hence, option C is the correct answer.

70. D

Sol. Let the initial income of Riya be Rs. $300x$.

Then, initial expenditure of Riya = $(300x) \times \frac{66\frac{2}{3}\%}{100} = \text{Rs. } 200x$

Initial savings of Riya = $300x - 200x = \text{Rs. } 100x$

New income of Riya = $300x + (300x) \times 16\%$

$$= 300x + 48x = \text{Rs. } 348x$$

New savings of Riya = $(100x) + (100x) \times 17\% = 100x + 17x = \text{Rs. } 117x$

Now, new expenditure of Riya = $348x - 117x = \text{Rs. } 231x$

$$\begin{aligned}\text{Increase (in %) in expenditure of Riya} &= \left(\frac{231x - 200x}{200x} \right) \times 100 = \frac{31x}{2x} \\ &= 15.5\%\end{aligned}$$

Hence, option D is the correct answer.

71. C

Sol. Given:

The speed of a boat downstream is 2.5 times the speed of the boat upstream.

Let the speed of the boat downstream be x km/h

Then, speed of the boat upstream = $(x)/2.5 = 0.4x$ km/h

Now, as per question,

Time taken by the boat for going 30 km downstream and 30 km upstream = 7 hours

$$\Rightarrow \frac{30}{x} + \frac{30}{0.4x} = 7$$

$$\Rightarrow \frac{30 + 75}{x} = 7$$

$$\Rightarrow 7x = 105$$

$$\Rightarrow x = 105/7 = 15$$

Therefore, speed of the boat downstream is 15 km/h

Hence, option C is the correct answer.

72. A

Sol. Let the sum be Rs. A.

Then, as per question,

Simple interest at $x\%$ p.a. for $2\frac{1}{2}$ years + 585 = Simple interest at $(x + 3)\%$ p.a. for $2\frac{1}{2}$ years

$$\Rightarrow A \times (x)\% \times 2.5 + 585 = A \times (x + 3)\% \times 2.5$$

$$\Rightarrow 0.025Ax + 585 = 0.025Ax + 0.075A$$

$$\Rightarrow 0.075A = 585$$

$$\Rightarrow A = 585/0.075 = 7800$$

Therefore, the sum is Rs. 7800.

Now, simple interest on Rs. 7800 for $4\frac{2}{3}$ years at 14% p.a.

$$= 7800 \times 4\frac{2}{3} \times 14\%$$

$$= 7800 \times \frac{14}{3} \times 14\%$$

$$= \text{Rs. } 5096$$

Hence, option A is the correct answer.

73. A

Sol. Given:

A group of 108 persons with average height of 155.5 cm

$$\text{No. of males in the group} = 108 \times \frac{5}{9} = 60$$

$$\text{No. of females} = 108 - 60 = 48$$

Now, average height of all the persons in the group = 155.5 cm (given)

$$\Rightarrow \frac{\text{Sum of heights of male} + \text{Sum of heights of female}}{\text{No. of persons in the group}} = 155.5$$

$$\Rightarrow \frac{60 \times 158.7 + 48 \times (x)}{108} = 155.5$$

$$\Rightarrow 9522 + 48x = 16794$$

$$\Rightarrow 48x = 16794 - 9522$$

$$\Rightarrow 48x = 7272$$

$$\Rightarrow x = 7272/48 = 151.5$$

Hence, option A is the correct answer.

74. D

Sol. Let the marked price of the article be Rs. 100x.

Then, cost price for the dealer = $(100x) - (100x) \times 10\%$

$$= 100x - 10x = \text{Rs. } 90x$$

And selling price of the dealer = $(100x) + (100x) \times 15\%$

$$= 100x + 15x = \text{Rs. } 115x$$

$$\text{Gain (\%)} = \left(\frac{115x - 90x}{90x} \right) \times 100 = \left(\frac{25x}{90x} \right) \times 100 = 27.78\% \approx 28\%$$

Hence, option D is the correct answer.

75. D

Sol. Given:

When x is subtracted from each of 24, 33, 20 and 26, the numbers so obtained in this order are in proportion.

$$\frac{24 - x}{33 - x} = \frac{20 - x}{26 - x}$$

$$\Rightarrow 624 - 26x - 24x + x^2 = 660 - 33x - 20x + x^2$$

$$\Rightarrow 624 - 50x = 660 - 53x$$

$$\Rightarrow 53x - 50x = 660 - 624$$

$$\Rightarrow 3x = 36$$

$$\Rightarrow x = 36/3 = 12$$

Now, mean proportional between $(2x + 1)$ and $(5x - 11)$

$$= \sqrt{(2x + 1)(5x - 11)}$$

$$= \sqrt{(2 \times 12 + 1)(5 \times 12 - 11)} = \sqrt{25 \times 49}$$

$$= 35$$

Hence, option D is the correct answer.

76. A

- Sol. • The Constitution of India adopted many institutional details and procedures from the Government of India Act, 1935.
• It originally received royal assent in August 1935.
• It was the longest Act of Parliament ever enacted until the Greater London Authority Act 1999 surpassed it.
• The Government of India Act, 1935, has 321 sections and 10 schedules.
• The Indian Partnership Act 1932 defines a partnership as a relation between two or more persons who agree to share the profits of a business run by them all or by one or more persons acting for them all.
• Indian Registration Act is an act to consolidate the enactments relating to the registration of documents.

77. A

- Sol. • Helicobacter pylori bacterium is responsible for peptic ulcers.

- It is a gram-negative, microaerophilic, spiral (helical) bacterium usually found in the stomach.
- It was first identified in 1982 by the Australian doctor Barry Marshall and Robin Warren.
- Campylobacteriosis is an infection caused by bacteria you can get from contaminated food and water.
- *Bacillus cereus* is a facultatively anaerobic, toxin-producing gram-positive bacterium found in soil, vegetation and food.
- *Escherichia coli* is a bacteria that lives in the intestines of healthy people and animals.

78. B

Sol. ● The Mughals were descendants of Genghis Khan.

- Genghis Khan was the founder and first Great Khan of the Mongol Empire.
- Ghiyas ud din Balban was the ninth sultan of the Mamluk dynasty of Delhi.
- He was the regent of the last Shamsi sultan, Nasiruddin Mahmud.
- Muhammad Tughluq was the founder of the Tughlaq dynasty and He was one of the most controversial rulers in India's History.
- The Mughal Empire was an early modern Islamic empire in South Asia.

79. C

Sol. ● The grass is a biotic component of an ecosystem.

- Biotic components are the living things that shape an ecosystem.
- They are the living things that have a direct or indirect influence on other organisms in an environment.
- The ecosystem is the structural and functional unit of ecology where the living organisms interact with each other and the surrounding environment.
- Minerals are those elements on the earth and in foods that our bodies need to develop and function normally.
- The grass is a very common plant consisting of large numbers of thin, spiky, green leaves that cover the surface of the ground.

80. D

Sol. ● Nabakalebara is celebrated in Odisha.

- It is the ritualistic recreation of the wooden icons of four Hindu deities at Jagannath Temple, Puri.
- It was first organised in 1575 A.D by Yaduvanshi Bhoi King Ramachandra Deva.
- It marks the symbolic demise and rebirth of Jagannath at Puri.
- Namsoong is one of the important festivals of the Lepcha community which is celebrated as New Year.
- The Chapchar Kut is a spring festival celebrated with great favour and gaiety.

81. A

Sol. ● The Brahmaputra marks the easternmost boundary of the Himalayas.

- It is a transboundary river that flows through Tibet, India and Bangladesh.
- It is the 9th largest river in the world by discharge and the 15th longest.
- It is also one of the few rivers in the world that exhibits a tidal bore.
- The Kali River is a river flowing through the Uttara Kannada district of Karnataka state in India.
- Tista is the largest river of Sikkim and the second largest river in West Bengal.

82. C

Sol. ● The right to Seek Redressal is a consumer right.

- The right to seek compensation, whenever consumer rights have been infringed.
- Consumer rights are rights given to a consumer to protect him/her from being cheated by a salesman manufacturer.
- They are generally a reference to a body of law that pertains to things the producers of goods must do to protect customers from harm.
- The rights provided by the Court are:
 - a) Right to Safety
 - b) Right to Information
 - c) Right to Choose
 - d) Right to be Heard
 - e) Right to Seek Redressal
 - f) Right to Consumer Education

g) Right To Healthy Environment

h) Right to Basic Needs

83. B

Sol. • Khilafat Committee was formed in Bombay in March 1919.

• It was a pan-Islamist political protest campaign launched by Muslims of British India.

• It was an agitation by Indian Muslims allied with Indian nationalism in the years following World War I.

• The Sapru Committee Report rejected the proposal for the division of the Indian sub-continent into the two states of India & Pakistan and made a number of recommendations for the protection of minorities in a unified state.

• It was prepared by a committee appointed by the Non-Party Conference in November 1944.

84. B

Sol. • Mulching is a method of soil conservation.

• It conserves the soil moisture, enhances the nutrients status of soil, controls the erosion losses, suppresses the weeds in crop plants and removes the residual effects of pesticides & fertilizers.

• Soil conservation is the prevention of loss of the topmost layer of the soil.

• Overgrazing is grazing by livestock or wildlife to the point where the grass cover is depleted, leaving bare, unprotected patches of soil.

• Deforestation is the permanent removal of trees to make room for something besides the forest.

• Landslide is defined as the movement of a mass of rock, debris, or earth down a slope.

85. A

Sol. • Kezang D Thongdok won the Dadasaheb Phalke Award 2020 for a short documentary on honey hunting.

• The Dadasaheb Phalke Award is India's highest award in the field of cinema.

• It is presented annually at the National Film Awards ceremony by the Directorate of Film Festivals.

• He is popularly known as and often regarded as the father of Indian cinema

- Armaan Malik is known for his singing in multiple languages and He is also known as the Prince of Romance.
- Kiccha Sudeep is known for his performances in the Kannada films.

86. C

- Sol. ● Vini Mahajan was the first woman chief secretary of Punjab.
● Punjab has one of the oldest and richest cultures in the world.
● The Chief Secretary is the top-most executive official and senior-most civil servant of the state government.
● He/She acts as the principal advisor to the chief minister on all matters of state administration.
● He/She is an officer of the Indian Administrative Service.
● Kiran Bedi became the first woman in India to join the officer ranks of the Indian Police Service.

87. D

- Sol. ● Dr Rajendra Prasad was the president of the Constituent Assembly.
● The Constituent Assembly of India was elected to frame the Constitution of India.
● Jawaharlal Nehru was a central figure in India during the middle of the 20th century.
● He was the first and longest-serving prime minister of India.
● Vallabhbhai Patel served as the first deputy Prime Minister of India from 1947 to 1950.
● He was one of the conservative members of the Indian National Congress.

88. D

- Sol. ● Sonal Mansingh was the youngest recipient of the Padma Bhushan in 1992.
● She is the first Indian dancer to have been honoured with Padma Vibhushan.
● Yamine Krishnamurthy is one of the earliest classical dancers in India.
● Mallika Sarabhai is one of the gems of India who is blessed with multifaceted talents.
● The Padma Bhushan is the third-highest civilian award in the Republic of India.
● The award is given for distinguished service of a high order...without distinction of race, occupation, position or sex.

89. C

- Sol. • 'My Experiments With Truth' is an autobiography of Mahatma Gandhi.
• It covers his life from early childhood through to 1921.
• It was written in weekly instalments and published in his journal Navjivan from 1925 to 1929.
• Mahatma Gandhi was the father of the Indian independence movement and was regarded as the Father of the Nation.
• Jawaharlal Nehru was a central figure in India during the middle of the 20th century.
• Subhash Chandra Bose was one of the most eminent freedom fighters of India.

90. C

- Sol. • China has veto power in the United Nations.
• The United Nations Security Council veto power is the power of the five permanent members of the UN Security Council.
• All five permanent members have exercised the right of veto at one time or another.
• Bhutan is a landlocked country in the Eastern Himalayas, located between China and India.
• It is known as Druk Yul or Land of the Thunder Dragon.
• Bangladesh is one of the most densely populated countries in the world.

91. D

- Sol. • Young fold mountains in the northwest, north and northeast bind India.
• They are 10 to 25 million years of age and are formed because of the folding of the earth's crust due to tectonic activity.
• They are the most common type of mountain in the world.
• Dome mountains don't usually get as high as folded mountains because the force of the magma underneath doesn't push hard enough.
• They occur when liquid rock inside the Earth forces the ground above it upward.
• Block Mountains are formed when two tectonic plates move away from each other causing cracks on the surface of the Earth.

92. D

- Sol. • Collenchyma is responsible for the flexibility in plants.
• It supports tissue of living elongated cells with irregular cell walls.

- It is a supporting tissue composed of more or less elongated living cells with unevenly thickened, nonlignified primary walls.
- Parenchyma is a type of tissue that consists of cells that carry out an essential function.
- Sclerenchyma is the tissue that makes the plant hard & stiff and is a type of permanent tissue found in plants.
- Meristematic tissue is growth tissue and the location of most cell division.

93. A

- Sol.
- The sound of thunder is heard much later than the flash of light is seen and this shows the speed of sound is much less than the speed of light.
 - The speed of light is a universal physical constant that is important in many areas of physics.
 - The speed of sound is the distance travelled per unit of time by a sound wave as it propagates through an elastic medium.
 - Its exact value is defined as 299792458 metres per second.
 - The speed of sound in an ideal gas depends only on its temperature and composition.

94. C

- Sol.
- Copper metal did the Harappans get from the present-day Rajasthan.
 - It is a soft, malleable, and ductile metal with very high thermal and electrical conductivity.
 - It is an essential trace mineral that occurs in all body tissues.
 - Aluminium is the most abundant metal in the Earth's crust but is rarely found uncombined in nature.
 - Iron is an essential element for all forms of life and is non-toxic.
 - Calcium is one of the most important minerals for the human body & It is a major structural element in bones and teeth.

95. C

- Sol.
- Ustad Bismillah Khan was famous for playing shehnai.
 - He is one of the most recognizable faces of Hindustani classical music.
 - Shehnai is made of wood, with a double reed at one end and a metal or wooden flared bell at the other end.

- It is widely used during marriages, processions and in temples.
- Sitar is a plucked stringed instrument, originating from the Indian subcontinent.
- Santoor is a stringed instrument made of wood, steel and bamboo.

96. B

- Sol. ● Consumer Protection Act was enacted in 1986.
- It was an act of the Parliament of India enacted to protect the interests of consumers in India.
 - It was replaced by the Consumer Protection Act, 2019.
 - It gives easy and fast compensation to consumer grievances.
 - It was passed in Assembly in October 1986 and came into force on December 24, 1986.
 - It enables ordinary consumers to secure less expensive and often speedy redressal of their grievances.

97. C

- Sol. ● Yeast breaks down the food material outside the body and then absorbs it.
- They are eukaryotic, single-celled microorganisms classified as members of the fungus kingdom.
 - Leeches are segmented worms in the Subclass Hirudinea that are usually ectoparasitic.
 - They are worms that live in water or on land and feed by sucking blood from fish, frogs, lizards, birds etc.
 - Lice are tiny, wingless, parasitic insects that feed on human blood.
 - Ticks are most active in spring, summer & fall and are small, blood-sucking bugs.

98. D

- Sol. ● The Olympic Games 2024 are scheduled to be held in Paris.
- It is an upcoming international multi-sport event scheduled to take place from 26 July to 11 August 2024.
 - It will be the first of two consecutive Olympic Games to be held in Europe.
 - Summer Olympics are a major international multi-sport event normally held once every four years.
 - Paris will become the second city to host the Summer Olympics three times.

- It will be the sixth Olympic Games hosted by France.

99. A

- Sol. • The Governor of the Reserve Bank of India as of August 2020 was Shaktikanta Das.
• Shaktikanta Das is currently serving as the 25th governor of the Reserve Bank of India.
• The RBI is India's central bank and regulatory body responsible for the regulation of the Indian banking system.
• Manish Sabharwal is currently Vice Chairman of Teamlease Services.
• Natarajan Chandrasekaran became the first non-Parsi and professional executive to head the Tata Group.
• Mahesh Kumar Jain is serving as a Deputy Governor of the Reserve Bank of India.

100. B

- Sol. • Justice Mukundakam Sharma was the Chairperson of the sports committee for the National Sports Award 2020.
• The National Sports Awards is the collective name given to the six sports awards of the Republic of India.
• It is awarded annually by the Ministry of Youth Affairs and Sports.
• They are presented by the President of India in the same ceremony at the Presidential Palace, usually on 29 August.
• Virender Sehwag is widely regarded as one of the most destructive batsmen of all time.
• Rajyavardhan Singh Rathore became the first Indian post-independence to win an individual silver at the Olympics.

Mock Test Solutions in Hindi

Questions

1. Select the most appropriate word for the given group of words.

Something that can be carried easily

- | | |
|--------------|-------------|
| A. Mobile | B. Potable |
| C. Briefcase | D. Portable |

2. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

My father made me to do the French grammar exercise again and again.

3. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

It was her who represented our school in the interschool debate competition.

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

JUICY

- A. Oily
 - B. Dewy
 - C. Watery
 - D. Dry

5. Select the most appropriate option to substitute the underlined segment in the given sentence.

My uncle and his family may come late last night, but I am not sure.

6. 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'.

Everybody respecting her because she is so sincere.

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

To be on a roll

- A. To be experiencing a successful period B. To be experiencing setbacks
C. To be feeling extremely unhappy D. To be moving from place to place

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

POMPOUS

- A. Boastful B. Dull
C. Humble D. Modest

15. Select the most appropriate word for the given group of words.

A person's entire collection of clothes

- A. Dowry B. Closet
C. Attire D. Wardrobe

16. Select the INCORRECTLY spelt word.

- A. Fullfil B. Futile
C. Fuse D. Furl

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

Everyone without _____ voted for a holiday.

- A. omission B. acceptance
C. exception D. impression

18. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

Your essay is good excepting for the spelling.

- A. Your essay is good B. excepting for
C. No error D. the spelling

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

_____ repeated warnings, he still comes late.

- A. In spite of B. Even though
C. In case of D. In order to

20. Select the INCORRECTLY spelt word.

- | | |
|-----------|-----------|
| A. Divine | B. Devote |
| C. Dive | D. Devide |

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.

We set sail the very next day, and cruised from island to island in the fine weather. (1)_____ we landed we found a crowd of merchants and clients eager (2)_____ business with us. At last we came to (3)_____ peaceful island, with no sign of human (4)_____. It was a lovely place, with green trees, brightly (5)_____ birds, and cool running streams. I roamed around and found a pleasant spot to eat the lunch that I had brought with me.

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

- | | |
|-------------|--------------|
| A. Wherever | B. Whatever |
| C. However | D. Somewhere |

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

- | | |
|----------|-------------|
| A. do | B. to do |
| C. doing | D. to doing |

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

- | | |
|-------|--------|
| A. a | B. any |
| C. an | D. the |

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

- | | |
|----------------|----------------|
| A. inhabitants | B. people |
| C. persons | D. individuals |

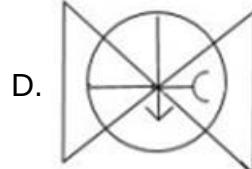
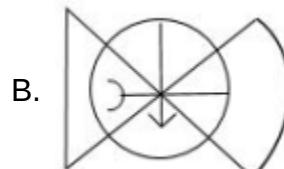
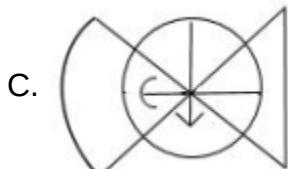
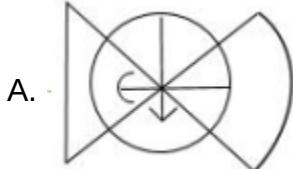
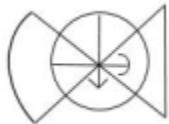
25. Select the most appropriate option to fill in blank no. 5

- | | |
|------------|-----------|
| A. colours | B. colour |
|------------|-----------|

C. colouring

D. coloured

26. आकृति के दर्पण प्रतिबिम्ब का चयन करें, जब दर्पण को आकृति के दायीं ओर रखा जाए।



27. यदि RELICS के लिए कूट 120 है तथा BASTION के लिए कूट 146 है, तब DISTANT के लिए कूट क्या होगा?

A. 88

B. 182

C. 160

D. 170

28. दो कथनों के बाद दो निष्कर्ष I और II दिए गए हैं। कथनों को सत्य मानते हुए, भले ही वे वास्तविक दुनिया के ज्ञान के अनुरूप न हों, तथा करें कि कौन-सा निष्कर्ष तार्किक रूप से कथनों का अनुसरण करते हैं/अनुसरण करता है।

कथन:

1) कुछ कॉटेज हट्स हैं।

2) सभी हट्स शेड हैं।

निष्कर्ष:

I. कुछ शेड कॉटेज हैं।

II. कोई शेड कॉटेज नहीं है।

A. केवल निष्कर्ष II अनुसरण करता है

C. या तो निष्कर्ष I या निष्कर्ष II अनुसरण करता है

B. केवल निष्कर्ष I अनुसरण करता है

D. निष्कर्ष I और II दोनों अनुसरण करते हैं

29. निम्नलिखित समुच्चय के समान संख्याओं के समुच्चय का चयन कीजिए।

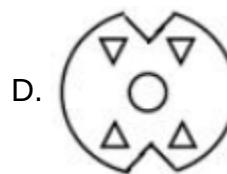
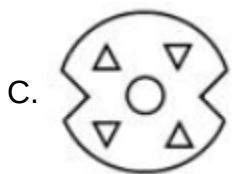
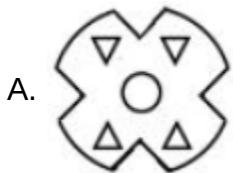
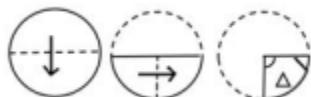
{12, 28, 32}

- | | |
|------------------|-----------------|
| A. {39, 78, 102} | B. {15, 35, 45} |
| C. {9, 21, 24} | D. {21, 48, 56} |

30. यदि GOD के लिए कूट 55 है तथा MAKE के लिए कूट 78 है, तब BYTE के लिए क्या कूट होगा?

- | | |
|-------|-------|
| A. 56 | B. 72 |
| C. 52 | D. 63 |

31. कागज के एक टुकड़े को मोड़ने का क्रम और जिस तरीके से मुड़े हुए कागज को काटा गया है, उसे नीचे दी गई आकृतियों में दिखाया गया है। कागज को खोलने में यह कैसा दिखाई देगा?



32. यदि PROBABLE के लिए कूट OORABLBF है, तब TELEGRAM के लिए कूट क्या होगा?

- | | |
|-------------|-------------|
| A. SFMDFARN | B. SLEGEARN |
| C. ULEGEARL | D. SLEEGARN |

33. विद्यार्थियों की एक पंक्ति में रीता दायें से 11वें स्थान पर और माधुरी बायें से 14वें स्थान पर है। रिया, रीता और माधुरी के ठीक बीच में है। यदि पंक्ति में 16 विद्यार्थी हैं, तो रिया का बायें से स्थान क्या है?

- | | |
|----------|----------|
| A. 9वां | B. 11वां |
| C. 10वां | D. 13वां |

34. यदि चिह्नों + और ÷ को आपस में बदल दिया जाए, तो निम्नलिखित में से कौन सा समीकरण सही होगा?

- | | |
|----------------------------|---------------------------|
| A. $12 + 4 - 4 \div 2 = 3$ | B. $9 \div 9 - 9 + 9 = 9$ |
|----------------------------|---------------------------|

C. $16 \div 4 - 10 + 2 = 15$

D. $12 \div 3 + 9 - 9 = 4$

35. निम्नलिखित संख्या शून्खला में प्रश्नवाचक चिन्ह (?) के स्थान पर कौन सी संख्या आएगी?

266, 138, 74, 42, ?, 18

A. 18

B. 28

C. 34

D. 26

36. उस विकल्प का चयन करें जो तीसरे अक्षर-समूह से उसी प्रकार संबंधित है जैसे दूसरा अक्षर-समूह पहले अक्षर-समूह से संबंधित है।

NICER : WAFGO :: SCARF : ?

A. AYXEQ

B. KNDAT

C. NKTDA

D. KMGBT

37. एकेडमिक स्टाफ कॉलेज ने सोमवार से रविवार तक प्रत्येक दिन छह अलग-अलग विषयों में केवल एक पुनर्शर्चर्या पाठ्यक्रम का आयोजन किया।

i. इनमें से एक दिन की छुट्टी थी।

ii. छुट्टी के एक दिन पहले मनोविज्ञान था।

iii. पाठ्यक्रम इतिहास के साथ समाप्त हुआ।

iv. बुधवार को लिया गया अर्थशास्त्र भौतिकी के एक दिन पहले था।

v. मनोविज्ञान और दर्शनशास्त्र में दो दिनों का अंतराल था।

vi. समाजशास्त्र और अर्थशास्त्र के बीच एक दिन और समाजशास्त्र और भौतिकी के बीच दो दिन का अंतर था।

छुट्टी किस दिन थी?

A. बुधवार

B. शनिवार

C. शुक्रवार

D. गुरुवार

38. 'रेस्टोरेंट' का संबंध 'मेन्यू' से उसी प्रकार है जैसे 'पुस्तकालय' का संबंध '_____ ' से है।

A. रजिस्टर

B. रैक

C. किताब

D. कैटलॉग

39. तीन कथनों का अनुसरण तीन निष्कर्ष I, II और III द्वारा किया जाता है। कथनों को सत्य मानते हुए, भले ही वे वास्तविक दुनिया के ज्ञान के

अनुरूप न हों, निर्णय लें कि कौन सा निष्कर्ष तार्किक रूप से कथनों का अनुसरण करते हैं/अनुसरण करता है।

कथन:

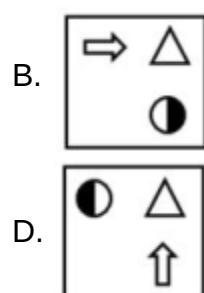
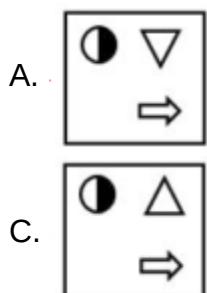
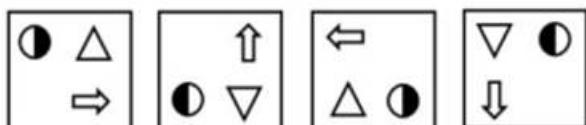
- 1) सभी चाचा रिश्तेदार हैं।
- 2) कुछ रिश्तेदार पड़ोसी हैं।
- 3) सभी पड़ोसी नौकरीपेशा हैं।

निष्कर्ष:

- I. कुछ पड़ोसी चाचा हैं।
- II. कुछ चाचा नौकरीपेशा हैं।
- III. कुछ रिश्तेदार नौकरीपेशा हैं।

- A. केवल निष्कर्ष I और II अनुसरण करते हैं
B. केवल निष्कर्ष II और III अनुसरण करते हैं
C. केवल निष्कर्ष III अनुसरण करता है
D. केवल निष्कर्ष I अनुसरण करता है

40. निम्नलिखित आकृति शरूंखला में कौन-सी विकल्प आकृति आगे आएगी?



41. सात लड़के A, B, C, D, E, F और G एक पंक्ति में खड़े हैं।

- i. D, F के ठीक बायें हैं।

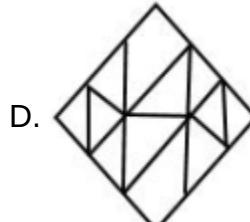
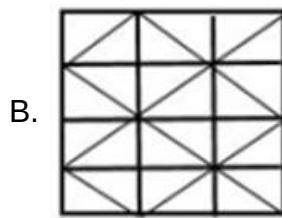
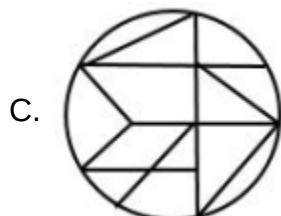
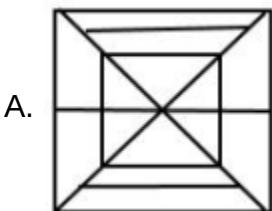
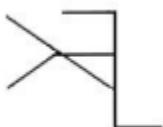
- ii. A, G के ठीक बायें हैं।
 - iii. E और G के बीच दो लड़के हैं।
 - iv. B, D और G के बीच में हैं।

ठीक बीच में कौन खड़ा है?

43. दिए गए समीकरण को सही बनाने के लिए किन दो चिह्नों को आपस में बदलना चाहिए?

$$25 - 15 \div 5 \times 10 + 20 = 35$$

44. उस विकल्प का चयन करें जिसमें दी गई आकृति अंतर्निहित है (रोटेशन की अनुमति नहीं है)।



45. यदि FRATERNIZE के लिए कूट TRFEAEINRZ है, तो PHOTOGRAPH के लिए कूट क्या होगा?

A. TRFAEHAGRP

B. THOOPHARPG

C. TPOOHAGHPR

D. TOOHPRPHGA

46. निम्नलिखित संख्या शून्यखला में प्रश्नवाचक चिन्ह (?) के स्थान पर कौन सी संख्या आएगी?

13, 20, 30, 45, 68, 103, ?, 230

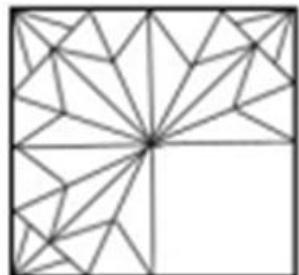
A. 155

B. 157

C. 163

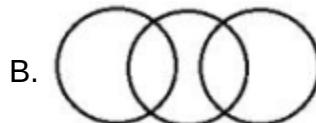
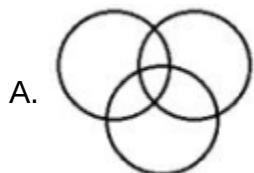
D. 133

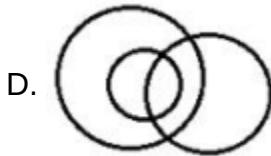
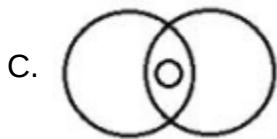
47. उस विकल्प आकृति का चयन करें, जिसे आकृति के रिक्त स्थान में रखने पर पैटर्न पूरा हो जाएगा।



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

टेनिस प्रशंसक, छात्र, हॉकी खिलाड़ी





49. उस संख्या-युग्म का चयन करें जिसमें दो संख्याएँ उसी प्रकार संबंधित हैं जैसे नीचे दिए गए युग्म की दो संख्याएँ।

15 : 65

A. 33 : 140

C. 26 : 102

B. 8 : 28

D. 18 : 82

50. निम्नलिखित शरुंखला में कौन-सा अक्षर-समूह प्रश्नवाचक चिन्ह (?) का स्थान लेगा?

AZB, CBD, FEG, JIK, ?

A. ONP

B. NMO

C. OMP

D. NOP

51. एक गोले की तिरज्या को $16\frac{2}{3}\%$ बढ़ाया जाता है, तो इसके पृष्ठीय क्षेत्रफल में कितने प्रतिशत की वृद्धि होगी (दशमलव के एक स्थान तक सही मान)?

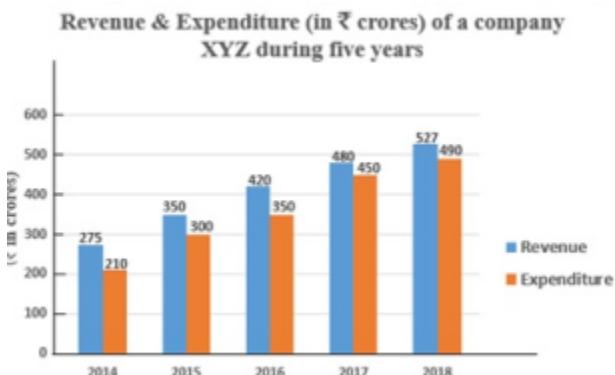
A. 34.8%

B. 36.1%

C. 33.9%

D. 35.6%

52. निर्देश: दिए गए ग्राफ का अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।



यदि पाई चार्ट पाँच वर्षों में कंपनी के व्यय से सम्बन्धित आंकड़ों के लिए बनाया गया है, तो 2016 में व्यय का प्रतिनिधित्व करने वाले खंड का केन्द्रीय कोण निम्न में से किसके बीच निहित होगा?

A. 74° और 77° B. 71° और 74° C. 65° और 68° D. 68° और 71°

53. किस वर्ष में कंपनी का राजस्व 2014, 2016 और 2018 के दौरान औसत व्यय के 1.2 गुना के बराबर है?

A. 2016

B. 2015

C. 2017

D. 2018

54. 2014, 2015 और 2018 में कंपनी का कुल राजस्व 2016 और 2017 में कंपनी के कुल व्यय से कितने प्रतिशत अधिक है?

A. 42%

B. 44%

C. 52.75%

D. 34.5%

55. $\frac{4}{5} \times 1\frac{1}{9} \div \frac{8}{15} + \left(5\frac{1}{4} \div \frac{3}{7} \text{ of } \frac{1}{4} \times \frac{2}{7} \right) \div 5\frac{3}{5} - \frac{1}{4} \div \frac{3}{2}$ का मान ज्ञात करें

A. 4

B. $\frac{1}{2}$ C. $\frac{3}{5}$

D. 6

56. एक ट्रेन $5\frac{1}{2}$ घंटे की यात्रा करती है, पहली आधी दूरी को यह ट्रेन 60 किमी/घंटा और दूसरी आधी दूरी को यह ट्रेन 20 मीटर/सेकंड की गति से तय करती है, तो तय की गई कुल दूरी (किमी में) ज्ञात करें।

A. 300

B. 240

C. 360

D. 250

57. $\frac{\frac{8}{3} \div \frac{3}{5} \times \frac{7}{5}}{\frac{5}{3} \div \frac{5}{7} \times \frac{8}{9}} \div 15$ का मान ज्ञात करें।A. $\frac{1}{5}$ B. $\frac{1}{2}$ C. $\frac{1}{4}$ D. $\frac{1}{3}$

58. एक वस्तु का क्रय मूल्य 214 रुपये है। इसके अंकित मूल्य पर 15%, 20% और 10% की निरंतर तीन छूट देने के बाद, इसे 153 रुपये में बेचा जाता है। यदि इसे अंकित मूल्य पर बेचा जाता है, तो लाभ (रुपये में) ज्ञात करें।

A. 49

B. 36

C. 39

D. 45

59. अमित 4 वर्षों के लिए 10% प्रति वर्ष की दर से चक्रवृद्धि व्याज पर 8,000 रुपये की राशि उधार लेता है। यदि वह पहले वर्ष के अंत में 2,800 रुपये और दूसरे वर्ष के अंत में 2,600 रुपये चुकाता है। तो यह ऋण चुकाने के लिए, उसे 4 वर्षों के बाद कितना भुगतान करना चाहिए, यदि व्याज वार्षिक रूप से संयोजित होता है?

A. 4,800 रुपये

B. 4,880 रुपये

C. 4,840 रुपये

D. 4,780 रुपये

85. शहद के शिकार पर एक लघु डाक्यूमेंट्री के लिए दादा साहब फाल्के पुरस्कार 2020 किसने जीता?
- A. केज़ांग डी थोंगडोकी
B. धीरज धूपड़ी
C. अरमान मलिक
D. किच्चा सुदीप
86. पंजाब की पहली महिला मुख्य सचिव कौन थी?
- A. आकांक्षा जुनेजा
B. डॉ. नवजोत कौर सिंहू
C. विनी महाजन
D. किरण बेदी
87. निम्नलिखित में से कौन संविधान सभा का अध्यक्ष था?
- A. जगजीवन राम¹
B. सरदार वल्लभभाई पटेल
C. जवाहरलाल नेहरू
D. डॉ राजेंद्र प्रसाद
88. निम्नलिखित में से कौन सा शास्त्रीय नृत्यांगना 1992 में सबसे कम उम्र के पद्म भूषण प्राप्तकर्ता थे?
- A. मल्लिका साराभाई
B. यामिनी कृष्णमूर्ति
C. शोवना नारायण
D. सोनल मानसिंह
89. 'माई एक्सप्रेसेंट्स विद ट्रूथ' (सत्य के साथ मेरे प्रयोग) किसकी आत्मकथा है?
- A. बिपिन चंद्र पाल
B. सुभाष चंद्र बोस
C. महात्मा गांधी
D. जवाहरलाल नेहरू
90. संयुक्त राष्ट्र में किस देश के पास वीटो पावर है?
- A. भारत
B. भूटान
C. चीन
D. बांग्लादेश
91. उत्तर-पश्चिम, उत्तर और उत्तर-पूर्व में किस प्रकार के पर्वत भारत को घेरते हैं?
- A. ब्लॉक पर्वत
B. गुम्बद पर्वत
C. पठारी पर्वत
D. यंग फोल्ड पर्वत
92. पौधों में लचीलेपन के लिए कौन सा ऊतक उत्तरदायी है?
- A. मेरिस्टेमेटिक
B. स्क्लोरेन्काइमा
C. पैरेन्काइमा
D. कोलेनकाइमा
93. गडग़ाहट की आवाज प्रकाश की चमक की तुलना में बहुत बाद में सुनाई देती है। यह क्या दिखाता है?
- A. ध्वनि की गति प्रकाश की गति से बहुत कम होती है।
B. ध्वनि की गति प्रकाश की गति की दोगुनी है।
C. ध्वनि की गति प्रकाश की गति की तीन गुना है।
D. ध्वनि की गति प्रकाश की गति के समान होती है।
94. हड्प्पावासियों को वर्तमान राजस्थान से कौन सी धातु प्राप्त हुई थी?
- A. लोहा
B. एल्युमिनियम
C. ताँबा
D. कैल्शियम
95. उस्ताद बिस्मिल्लाह खान किस वाद्य यंत्र को बजाने के लिए प्रसिद्ध थे?

A. संतूर

C. शहनाई

B. सितार

D. तबला

96. उपभोक्ता संरक्षण अधिनियम _____ में अधिनियमित किया गया था।

A. 1990

B. 1986

C. 1992

D. 1985

97. निम्नलिखित में से कौन सा जीव शरीर के बाहर की खाद्य सामग्री को तोड़ता है और फिर उसे अवशोषित करता है?

A. किलनी (टिक्स)

B. जॉक (लीचेस)

C. खमीर

D. जूँ

98. ओलंपिक खेल 2024 आयोजित होने वाले हैं:

A. टोक्यो

B. लॉस एंजिल्स

C. लीमा

D. पेरिस

99. अगस्त 2020 तक भारतीय रिजर्व बैंक के गवर्नर थे:

A. शक्तिकांत दास

B. मनीष सभरवाल

C. नटराजन चंद्रशेखरन

D. महेश कुमार जैन

100. राष्ट्रीय खेल पुरस्कार 2020 के लिए खेल समिति के अध्यक्ष कौन थे?

A. कर्नल राज्यवर्धन सिंह राठौर

B. न्यायमूर्ति मुकुंदकम शर्मा

C. आलोक सिन्हा

D. वीरेंद्र सहवाग

Solutions

1. D

- Sol. Mobile: something that is not fixed in one place and can be moved easily and quickly.
Potable: safe to drink.
Briefcase: a flat case used for carrying papers and documents.
Portable: something that is easy to carry or to move.

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

2. C

- Sol. The sentence is grammatically incorrect, and the error lies in **option C**. The error is related to **Verb**.
* “Make”, “Let” and “Have” takes “object + bare infinitive”.

For example:

The official **made me fill** in a form.

The headmaster **let the pupils go** home early.

* In the given sentence, we have erroneously used “to + infinitive” (i.e. “to do”) structure after the verb “made”. Thus, bare infinitive i.e. “do” should be used in place of “to do”.

* Hence, “**My father made me do**” is the correct substitution.

Thus, the correct sentence will be:

My father made me do the French grammar exercise again and again.

3. C

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

* Subjective case of pronoun is used as complement.

For example:

It was **he** who told me about the project.

It was **she** who first introduced the pleasures of skiing to me.

* In the given sentence, we have erroneously used the objective case of pronoun “Her” as a complement. Thus, the subjective case pronoun “she” should be used in place of “her”.

* Hence, “**It was she**” is the correct substitution.

Thus, the correct sentence will be:

It was she who represented our school in the interschool debate competition.

4. D

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

Juicy = containing a lot of juice and good to eat.

E.g.: The birds come searching for **juicy** worms and grubs.

Oily = containing or covered with oil.

Dewy = wet with dew.

Watery = of or like water; containing a lot of water.

Dry = not wet or sticky; without water or moisture.

E.g.: Store onions in a cool **dry** place.

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

5. B

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

* Underlined part needs correction in modal verb.

* Modal verb “May” and “Might” both are used to say that something is possibly true.

* In case of modal verb to show the sense of past, we use “**modal verb + have + past participle**”. Past equivalent form of Modal verb is used in this structure.

For example:

The letter **might have arrived** yesterday.

* The given clause (“My uncle...last night”) of the sentence is set in past tense because time word “last night” is used. But we have erroneously used “May” as a modal verb instead of “Might” (a past equivalent form). Thus, “Might” should be used in place of “May”.

* Also, “have + past participle” is used after “Might” to show the completion of action in the past. Thus, “have come” should be used.

Note: “Came” is the second form of verb “come” whereas “Come” is the third form or past participle form of verb “Come”.

* Hence, “**might have come**” is the correct substitution.

Thus, the correct sentence will be:

My uncle and his family might have come late last night, but I am not sure.

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

6. D

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

* Underlined part needs correction in verb.

* “Everybody” as a subject takes the singular form of verb after it.

For example:

Everybody **laughs** at my handwriting.

Everybody **makes** a mistake once in a while.

* In the underlined part, we need a verb in its singular form because “Everybody” is a subject. But we have erroneously used the continuous form of verb i.e. “respecting”. Also, the use of continuous form does not make sense when sentence does not demand an action that is currently in progress. Thus, singular verb “respects” should be used in place of “respecting”.

* Hence, “**respects**” is the correct substitution.

Thus, the correct sentence will be:

Everybody respects her because she is so sincere.

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

7. B

Sol. The idiom “**To go nuts**” means to become crazy or insane.

Example: The fans **went nuts** when the team won champions trophy.

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

8. D

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

* Underlined part needs correction in verb.

* As per the Subject Verb agreement, verb should be in accordance with the subject. A singular verb should be used with a singular subject whereas a plural verb should be used with a plural subject.

For example:

Schools are among the biggest customers for this service.

The school is widely admired for its excellent teaching.

- * In the underlined part, we have erroneously used plural helping verb (were) for the singular subject “earth”. Thus, as per the Subject Verb agreement, singular helping verb “was” should be used in place of plural helping verb “were”.
- * Hence, “**was**” is the correct substitution.

Thus, the correct sentence will be:

In earlier times, there were many who thought that the earth was flat rather than round.

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

9. B

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

Stiff = difficult to bend or move.

E.g.: Scrub away any residue with a **stiff** brush.

Strong = having a lot of physical power so that you can lift heavy weights, do hard physical work, etc.

Tender = (of meat or vegetables) easy to cut or chew (= crush with the teeth)

E.g.: My steak was beautifully **tender**.

Rigid = very strict and difficult to change.

Tight = held or fixed in position securely.

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

10. C

Sol.

Let us understand the meaning of the given words:-

- * To = (preposition) in the direction of something.
- * With = (preposition) in the company or presence of someone/something
- * For = (preposition) in connection with someone/something.
- * Of = (preposition) being a part of something.

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

- * "To" as a preposition is used to show in the direction of something. Thus, option A is incorrect.
- * "With" as a preposition is used to show "in the company or presence of someone/something". Thus, option B is incorrect.
- * "Of" as a preposition is used to show something being a part of something else. Thus, option D is incorrect.
- * "For" as a preposition is used in connection with someone/something. Here in the given sentence, it is used to establish the connection of verb "was prepared" with "tragic news". It mentions villagers' unpreparedness in terms of their response to the "tragic news".

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

Thus, the correct sentence will be:

Nobody in the village was prepared for the tragic news.

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

11. B

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

- * Simply = (adverb) used to emphasize how easy or basic something is.
- * Seriously = (adverb) in a serious (bad or dangerous) way.
- * Hardly = (adverb) almost not.
- * Directly = (adverb) with nobody or nothing in between.

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

- * "Simply" as an adverb is used to emphasize how easy or basic something is. Thus, option A is incorrect.
- * "Hardly" as an adverb is used to show "almost not". Thus, option C is incorrect.
- * "Directly" as an adverb is used to show the sense of "with nobody or nothing in between". Thus, option D is incorrect.
- * "Seriously" as an adverb is used to show "in a serious (bad or dangerous) way". Here in the given sentence, it is used to qualify the verb "injured" and thus shows how bad or dangerous it was.

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

Thus, the correct sentence will be:

He was seriously injured, but recovered very soon.

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

12. C

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

Breezy = wind blowing quite strongly.

E.g.: The weather at the seaside was idea- bright and **breezy**.

Dusty = full of dust.

Humid = climate that is warm and slightly wet.

Airy = with plenty of fresh air because there is a lot space.

E.g.: Dry the seeds in a cool, **airy** place.

Noisy = making a lot of noise.

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

13. A

Sol. The idiom "**To be on a roll**" means to be experiencing or going through a period of success at what you are doing.

Example: Don't stop me now. I am **on a roll!**

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

14. A

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

Pompous = showing that you think you are more important than other people, especially by using long and formal words.

E.g.: Her speech sounded very **pompous** and self-congratulatory.

Boastful = talking about yourself in a very proud way.

E.g.: We tried to emphasize our good points without sounding **boastful**.

Dull = not interesting or exciting.

Humble = showing you do not think that you are as important as other people.

Modest = not very large, expensive, important etc.

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

15. D

Sol. Dowry: money and/or property that, in some societies, a wife or her family must pay to her husband when they get married.

Closet: a small room or space in a wall with a door that reaches the floor, used for storing things.

Attire: clothes, especially fine or formal ones.

Wardrobe: the collection of clothes a person has.

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

16. A

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

“Fulfil” is the correct spelling of the incorrect word “Fullfil”. It means to do or achieve what was hoped for or expected.

The meaning of other words are:

Futile: pointless.

Fuse: a small wire or device inside a piece of electrical equipment that breaks and stops the current if the flow of electricity is too strong.

Furl: to roll and fasten something such as a sail, a flag.

17. C

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

* Omission = (noun) the act of not including someone/something or not doing something.

* Acceptance = (noun) the act of accepting a gift, an invitation, an offer etc.

* Exception = (noun) a person or thing that is not included in a general statement.

* Impression = (noun) an idea, a feeling or an opinion that you get about someone/something.

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

* “Omission” as a noun means the act of not including someone/something. Thus, option A is incorrect.

* “Acceptance” as a noun means the act of accepting a gift, an invitation etc. Thus, option B is incorrect.

* “Impression” as a noun means an idea, a feeling or an opinion that someone gets about someone/something. Thus, option D is incorrect.

* “Without exception” is used to emphasize that the statement someone is making is always true and everyone/everything is included. Here in the given sentence, it is used to mention that every person that took part in the voting process voted in favour of a holiday.

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

Thus, the correct sentence will be:

Everyone without exception voted for a holiday.

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

18. B

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

* “Except (for)” as a preposition is used to talk about an exception. It is used before the only thing or person about which a statement is not true.

For example:

I hate fish. I can eat anything **except** fish.

Everyone was there **except** Rohan.

Note: Use of “for” with “except” is optional.

* “Excepting” is also a preposition. It also means “except for” or “apart from”.

For example:

The sanctions ban the sale of any products **excepting** medical supplies and food.

* In the given sentence, we have erroneously used “for” after preposition “excepting”. Thus, if we want to retain “for” then we should use preposition “except for” OR if we want to remove “for” then we should use preposition “excepting”.

* Hence, either “**except for**” OR “**excepting**” is the correct substitution.

Note: Use of “for” with “except” is optional.

Thus, the correct sentence will be:

Your essay is good except for the spelling.

OR

Your essay is good except the spelling.

OR

Your essay is good excepting the spelling.

19. A

Sol.

Let's find out the correct fit for the blank:

- * “In case of” means if something happens. Thus, option C is incorrect.
- * “In order to” means with the purpose or intention of doing or achieving something. Thus, option D is incorrect.
- * “Although”, “even though”, “despite”, and “in spite of” can all be used to express the same thing. In other words, they have the same meaning. “Although” and “even though” are conjunctions, but “despite” and “in spite of” are considered prepositions.
- * After “in spite of” and “despite”, we use a noun, gerund (-ing form of a verb) or a pronoun.
- * After “although” and “even though”, we use a subject and a verb.
- * In the given sentence, we have a noun after the blank. Thus, “in spite of” is appropriate here.
- * “In spite of something” means if you say someone did something “in spite of a fact” means it is surprising that fact did not prevent them from doing it. Here in the given sentence, it is used before the noun phrase “repeated warnings”. It shows that “repeated warnings” did not prevent the action of “coming late”.

Thus, “In spite of” becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

In spite of repeated warnings, he still comes late.

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

20. D

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

“Divide” is the correct spelling of the incorrect word “Devide”. It means to separate into parts.

The meaning of other words are:

Divine: coming from or connected with God.

Devote: to give most of your time, energy, and attention to someone/something.

Dive: to jump into water with your head and arms going in first.

21. A

Sol. The given passage is about “**Narration of events that occurred during sailing**”.

“Whatever” is used to say that it does not matter what someone does, or what happens because the result will be the same. Thus, option B is wrong.

“However” is used to introduce a statement that contrasts with something that has just been said. Thus, option C is wrong.

“Somewhere” means a place that you do not know or do not mention by name. Thus, option D is wrong.

“Wherever” as a conjunction means “in any place”. In the given sentence, it is used to mention that “in any place” narrator and his colleagues landed, they found people (merchants and clients) that were keen to do business with them.

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

22. B

Sol. The given passage is about “**Narration of events that occurred during sailing**”.

“Do” is the first form of verb that is used to refer to actions that you do not mention by name or do not know about. Thus, option A is wrong.

“Doing” is the continuous form of verb “do”. Thus, option C is wrong.

“To doing” is a “to + participle” structure. Thus, option D is wrong.

“To do” is a “to + infinitive” structure of verb. It is used to show the purpose. Here in the given sentence, it is used to show the purpose i.e. “business”.

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

23. A

Sol. The given passage is about **“Narration of events that occurred during sailing”**.

“Any” as a determiner is used with uncountable or plural nouns in negative sentences and questions. Thus, option B is wrong.

“An” as an indefinite article is used before the countable nouns (having vowel sounds) that have not been mentioned before. Thus, option C is wrong.

“The” is a definite article. It is used before the nouns that are specific. Thus, option D is wrong.

“A” as an indefinite article is used before the countable nouns (having consonant sounds) that have not been mentioned before. In the given sentence, it is used as per the consonant sound of the adjective (“peaceful”) of noun (“island”). Noun “island” is not mentioned before in the passage.

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

24. A

Sol. The given passage is about **“Narration of events that occurred during sailing”**.

“People” as a noun means human beings. Thus, option B is wrong.

“Persons” as a noun means a human as an individual. But it does shows the sense of “humans living in a particular area”. Thus, option C is wrong.

“Individuals” as a noun means a person considered separately rather than as part of a group. Thus, option D is wrong.

“Inhabitants” as a noun means a person or an animal that lives in a particular place. In the given sentence, it is used to mention that there were no signs that show the presence of humans in a peaceful island.

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

25. D

Sol. The given passage is about “**Narration of events that occurred during sailing**”.

“Colours” is a plural form of noun “colour”. It means the appearance that things have that results from the way in which they reflect light. Thus, option A is wrong.

“Colour” is a singular form of a noun. Thus, option B is wrong.

“Colouring” is the continuous form of verb “colour”. It means to put colour on something using paint, coloured pencils, etc. Thus, option C is wrong.

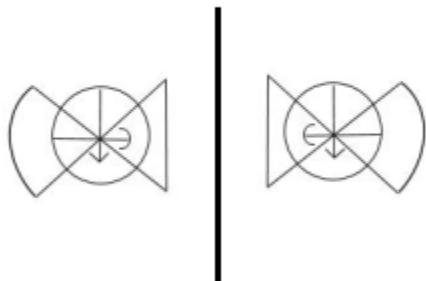
“Coloured” as an adjective means having a particular colour or different colours. In the given sentence, it is used to qualify the noun “birds” to reflect the presence of different colours on their body. Also, the adverb “brightly” is used for the adjective “coloured” to show that colours reflected a lot of light.

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

26. A

Sol. समतल दर्पण में, एक दर्पण प्रतिबिम्ब किसी वस्तु का परावर्तित दोहराव होता है जो लगभग समान दिखाई देता है, लेकिन यह दर्पण की सतह के लंबवत् दिशा में उल्टा हो जाता है। प्रकाशिक प्रभाव के रूप में यह दर्पण या पानी जैसे पदार्थों के परावर्तन के परिणामस्वरूप होता है।

Mirror



अतः विकल्प A सही उत्तर है।

27. C

Sol. माना A=1, B=2, C=3,.....Z=26

इसी प्रकार,

$$\text{RELICS} = 18+5+12+9+3+19 = 66$$

तथा, (66- RELICS में अक्षरों की संख्या)*2

$$=(66-6)*2$$

$$=60*2=120$$

और

$$\text{BASTION} = 2+1+19+20+9+15+14=80$$

तथा, (80- BASTION में अक्षरों की संख्या)*2

$$=(80-7)*2$$

$$=73*2=146$$

इसी प्रकार,

$$\text{DISTANT} = 4+9+19+20+1+14+20=87$$

अब, (87- DISTANT में अक्षरों की संख्या)*2

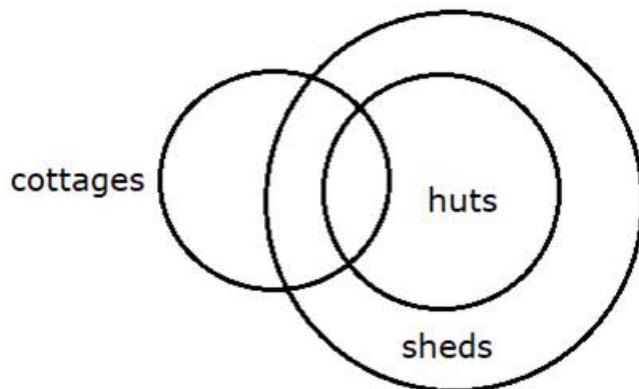
$$=(87-7)*2$$

$$=80*2=160$$

अतः विकल्प C सही उत्तर है।

28. B

Sol. न्यूनतम संभव आरेख है-



निष्कर्षः

I. कुछ शेड कॉटेज हैं। (यह इस प्रकार है क्योंकि कुछ कॉटेज हट्स हैं और सभी हट्स शेड हैं।)

II. कोई शेड कॉटेज नहीं है। (यह अनुसरण नहीं करता है क्योंकि कुछ कॉटेज हट्स हैं और सभी हट्स शेड हैं।)

इसलिए, केवल निष्कर्ष I अनुसरण करता है।

अतः विकल्प B सही उत्तर है।

29. C

Sol. As,

$$(32-28)*3=4*3=12$$

इसी प्रकार,

$$(24-21)*3=3*3=9$$

अतः विकल्प C सही उत्तर है।

30. A

Sol. माना A=26, B=25, C=24,.....Z=1

इसी प्रकार,

$$\text{GOD}=20+12+23=55$$

तथा

$$\text{MAKE}=14+26+16+22=78$$

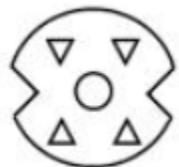
इसी प्रकार,

$$\text{BYTE}=25+2+7+22=56$$

अतः विकल्प A सही उत्तर है।

31. B

Sol. जैसा कि चित्र में दिया गया है, हमें इसे दिए गए तरीके से मोड़ना होगा और खोलने पर यह विकल्प B जैसा दिखाई देगा।

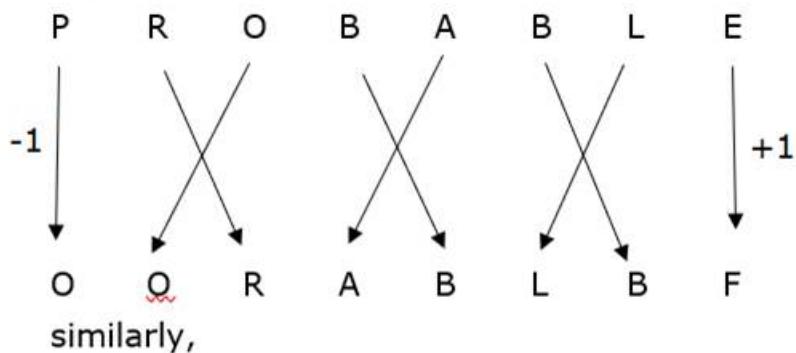


अतः विकल्प B सही उत्तर है।

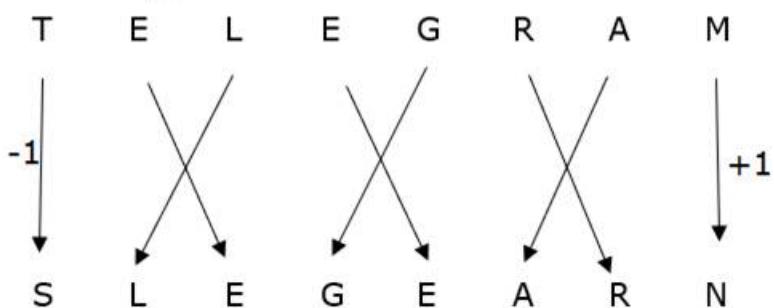
32. B

Sol.

as,



similarly,



अतः विकल्प B सही उत्तर है।

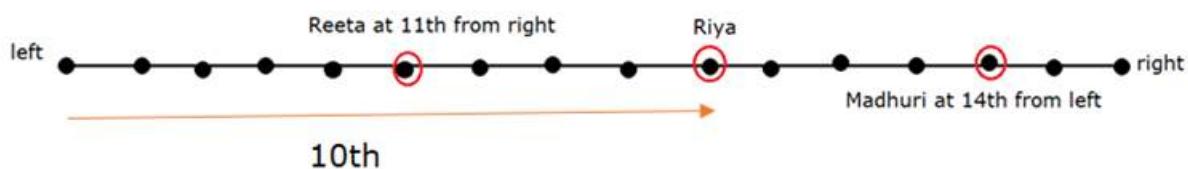
33. C

Sol. पंक्ति में 16 विद्यार्थी हैं।

रीता दायें से 11वें और माधुरी बायें से 14वें स्थान पर है।

रिया, रीता और माधुरी के ठीक बीच में है।

इसलिए, हमें प्राप्त हुआ:



रिया का बायें से स्थान=बाएं से 10वां

अतः विकल्प C सही उत्तर है।

34. C

Sol. विकल्प A को जाँचने पर:

$$12 + 4 - 4 \div 2 = 3$$

अदला-बदली करने के बाद:

$$12 \div 4 - 4 + 2 = 3$$

और, $3 - 4 + 2 = 3$

और, $1=3$

इसलिए, यह सही विकल्प नहीं है

विकल्प B को जाँचने पर:

$$9 \div 9 - 9 + 9 = 9$$

अदला-बदली करने के बाद:

$$9 + 9 - 9 \div 9 = 9$$

और, $9 + 9 - 1 = 9$

और, $17=9$

इसलिए, यह सही विकल्प नहीं है

विकल्प C को जाँचने पर:

$$16 \div 4 - 10 + 2 = 15$$

अदला-बदली करने के बाद:

$$16 + 4 - 10 \div 2 = 15$$

और, $20 - 5 = 15$

और, $15=15$

इसलिए, यह सही विकल्प है

जैसा कि, हमें सही उत्तर मिल गया है, इसलिए अधिक विकल्पों की जांच करने की आवश्यकता नहीं है।

अतः विकल्प C सही उत्तर है।

35. D

Sol. पैटर्न है:

$$18 \times 2 - 10 = 36 - 10 = 26$$

$$26 \times 2 - 10 = 52 - 10 = 42$$

$$42 \times 2 - 10 = 84 - 10 = 74$$

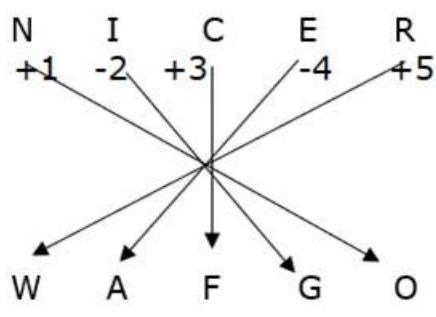
$$74 \times 2 - 10 = 148 - 10 = 138$$

$$138 \times 2 - 10 = 276 - 10 = 266$$

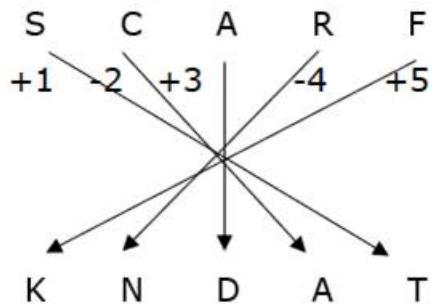
अतः विकल्प D सही उत्तर है।

36. B

Sol. As,



Similarly,



अतः विकल्प B सही उत्तर है।

37. B

Sol. i. इनमें से एक दिन की छुट्टी थी।

ii. छुट्टी के एक दिन पहले मनोविज्ञान था।

iii. पाठ्यक्रम इतिहास के साथ समाप्त हुआ।

रविवार = इतिहास

iv. बुधवार को लिया गया अर्थशास्त्र भौतिकी के एक दिन पहले था।

बुधवार = अर्थशास्त्र

गुरुवार = भौतिकी

v. मनोविज्ञान और दर्शनशास्त्र में दो दिनों का अंतराल था।

मनोविज्ञान/दर्शनशास्त्र

—

—

मनोविज्ञान/दर्शनशास्त्र

vi. समाजशास्त्र और अर्थशास्त्र के बीच एक दिन का अंतर था।

समाजशास्त्र/अर्थशास्त्र

—

समाजशास्त्र और अर्थशास्त्र के बीच एक दिन का अंतर था।

समाजशास्त्र/अर्थशास्त्र

vii. समाजशास्त्र और भौतिकी के बीच दो दिनों का अंतर था।

समाजशास्त्र/भौतिकी

—
—
समाजशास्त्र/भौतिकी

अतः, अंतिम करम है:

दिन	विषय
सोमवार	समाज शास्त्र
मंगलवार	दर्शनशास्त्र
बुधवार	अर्थशास्त्र
गुरुवार	भौतिकी
शुक्रवार	मनोविज्ञान
शनिवार	अवकाश/छुट्टी
रविवार	इतिहास

इसलिए शनिवार को छुट्टी थी।

अतः विकल्प B सही उत्तर है।

38. D

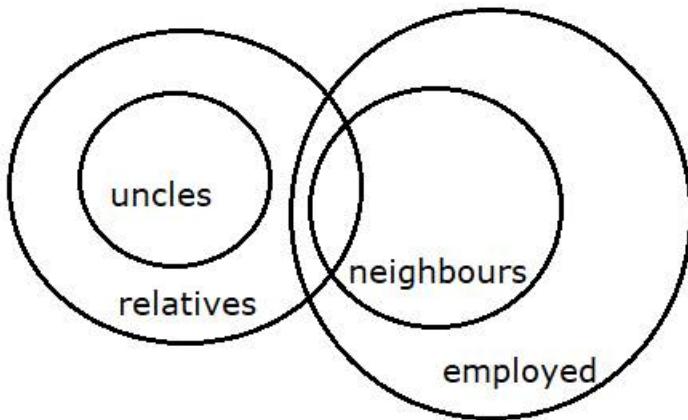
Sol. जैसे, रेस्टोरेंट में खाने की लिस्ट को मेन्यू कहते हैं।

इसी प्रकार पुस्तकालय (Library) में पुस्तकों की सूची को कैटलॉग (Catalogue) कहा जाता है।

अतः विकल्प D सही उत्तर है।

39. C

Sol. न्यूनतम संभव आरेख है-



निष्कर्षः

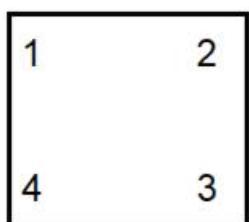
- I. कुछ पड़ोसी चाचा हैं। (यह केवल एक संभावना के रूप में अनुसरण नहीं करता है, लेकिन निश्चित नहीं है।)
- II. कुछ चाचा नौकरीपेश हैं। (यह भी केवल एक संभावना के रूप में अनुसरण नहीं करता है, लेकिन निश्चित नहीं है।)
- III. कुछ रिश्तेदार नौकरीपेश हैं। (यह निम्नानुसार है कि कुछ रिश्तेदार पड़ोसी हैं और सभी पड़ोसी नौकरीपेश हैं।)

अतः केवल निष्कर्ष III अनुसरण करता है।

अतः विकल्प C सही उत्तर है।

40. C

Sol.

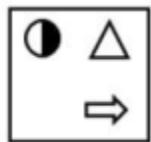


● का गतिमान क्रम है: 1 4 3 2 1

△ का गतिमान क्रम है: 2 3 4 1 2

⇒ का गतिमान क्रम है: 3 2 1 4 3

इसलिए, अगली आकृति है-



अतः विकल्प C सही उत्तर है।

41. C

Sol. i. D, F के ठीक बायें हैं।

D F

ii. A, G के ठीक बायें हैं।

A G

iii. E और G के बीच दो लड़के हैं।

E/G _ _ E/G

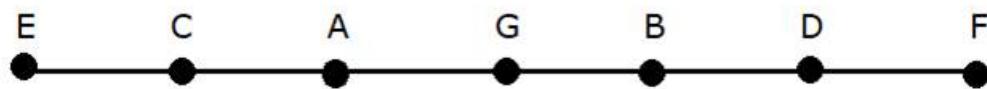
iv. B, D और G के बीच में हैं।

D/G B D/G

उपरोक्त से हमें प्राप्त होता है,

E _ A G B D F

इसलिए, अंतिम क्रम है:



इसलिए, G ठीक बीच में खड़ा है।

अतः विकल्प C सही उत्तर है।

42. C

Sol. जैसा कि, आविष्कारक (Inventor) को नई चीजों का आविष्कार करने के लिए कल्पना (Imagination) की आवश्यकता होती है।

इसी तरह, शिक्षक (Teacher) को छात्रों को पढ़ाने के लिए ज्ञान (Knowledge) की आवश्यकता होती है।

अतः विकल्प C सही उत्तर है।

43. B

Sol. विकल्प A को जाँचने पर:

$$25 - 15 \div 5 \times 10 + 20 = 35$$

अदला-बदला करने के बाद:

$$25 \times 15 \div 5 - 10 + 20 = 35$$

$$\text{और, } 25 \times 3 - 10 + 20 = 35$$

$$\text{और, } 75 - 10 + 20 = 35$$

$$\text{और, } 85=35$$

इसलिए, यह सही विकल्प नहीं है।

विकल्प B को जाँचने पर:

$$25 - 15 \div 5 \times 10 + 20 = 35$$

अदला-बदला करने के बाद:

$$25 + 15 \div 5 \times 10 - 20 = 35$$

$$\text{और, } 25 + 3 \times 10 - 20 = 35$$

$$\text{और, } 25 + 30 - 20 = 35$$

$$\text{और, } 35=35$$

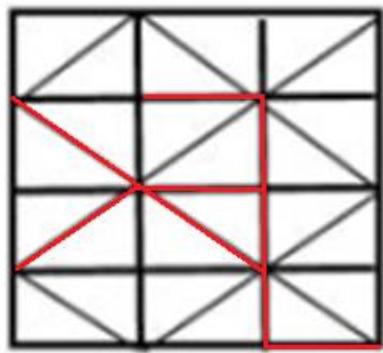
इसलिए, यह सही विकल्प है।

जैसा कि, हमें सही उत्तर मिल गया है, इसलिए अधिक विकल्पों की जांच करने की आवश्यकता नहीं है।

अतः विकल्प B सही उत्तर है।

44. B

Sol. प्रश्न और उत्तर में दिए गए आंकड़ों को ध्यान से देखने के बाद, यह बहुत स्पष्ट है कि दी गई प्रश्न आकृति उत्तर आकृति में अंतर्निहित है। इसे नीचे दिए गए अनुसार दिखाया गया है:



अतः विकल्प B सही उत्तर है।

45. C

Sol. तर्कः पहले आधे हिस्से को उल्टे क्रम में और दूसरे आधे को आगे के क्रम में व्यवस्थित करें।

जैसे,

FRATE RNIZE = TRFEA EINRZ

इसी प्रकार,

PHOTO GRAPH = TPOOH AGHPR

अतः विकल्प C सही उत्तर है।

46. A

Sol. पैटर्न है:

$$13+7=20$$

$$20+10=30$$

$$30+15=45$$

$$45+23=68$$

$$68+35=103$$

$$\mathbf{103+52=155}$$

$$155+75=230$$

तथा,

$$7+3=10$$

$$10+5=15$$

$$15+8=23$$

$$23+12=35$$

$$35+17=52$$

$$52+23=75$$

तथा,

$$3+2=5$$

$$5+3=8$$

$$8+4=12$$

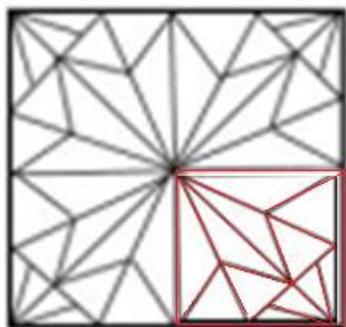
$$12+5=17$$

$$17+6=23$$

अतः विकल्प A सही उत्तर है।

47. B

Sol. पूर्ण आकृति है:

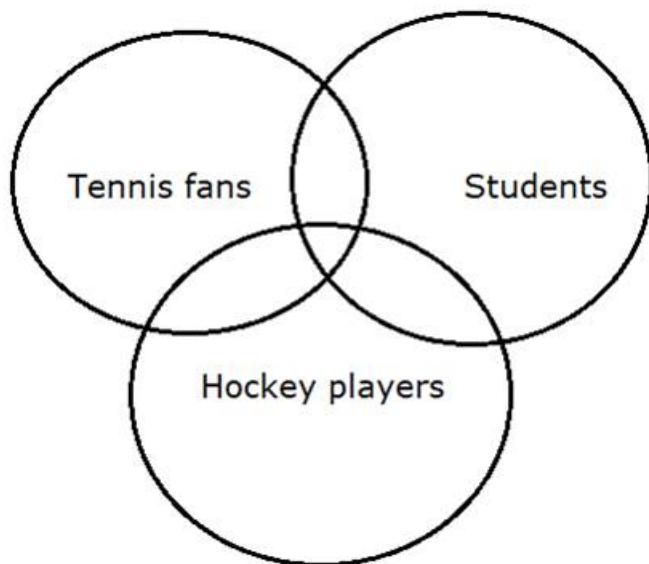


अतः विकल्प B सही उत्तर है।

48. A

Sol. सभी टेनिस प्रशंसक, छात्र और हॉकी खिलाड़ी एक दूसरे के परस्पर संबद्ध हैं।

इसलिए, सबसे अच्छा प्रतिनिधित्व है:



अतः विकल्प A सही उत्तर है।

49. B

Sol. RHS पर अंकों का गुणन LHS की संख्या के दोगुने के बराबर होता है।

$$6 \times 5 = 30 \text{ तथा } 15 \times 2 = 30$$

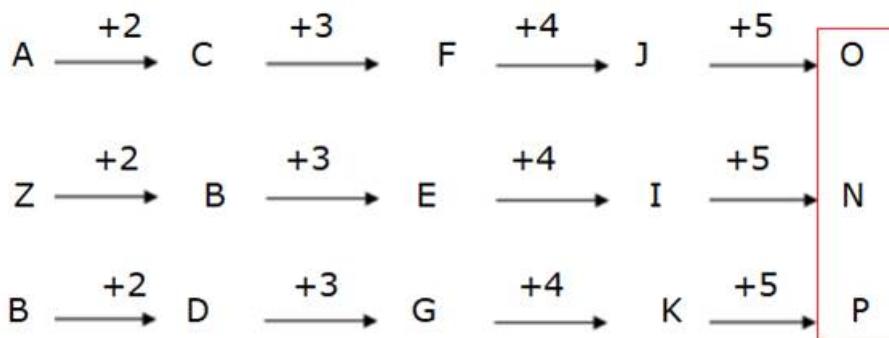
इसी प्रकार,

$$2 \times 8 = 16 \text{ तथा } 8 \times 2 = 16$$

अतः विकल्प B सही उत्तर है।

50. A

Sol. पैटर्न है:



अतः विकल्प A सही उत्तर है।

51. B

Sol. माना त्रिज्या r है।

$$\text{तो, नई त्रिज्या} = \left(1 + \frac{\frac{16}{3}}{100}\right)r = \left(1 + \frac{50}{300}\right)r = \frac{7}{6}r$$

पृष्ठीय क्षेत्रफल में प्रतिशत वृद्धि = नया पृष्ठीय क्षेत्रफल – पुराना पृष्ठीय क्षेत्रफल / पुराना पृष्ठीय क्षेत्रफल * 100

$$= \left(\frac{4\pi \left(\frac{7}{6}r\right)^2 - 4\pi r^2}{4\pi r^2} \right) \times 100$$

$$= \left(\frac{\frac{49}{36} - 1}{1} \right) \times 100$$

$$= \left(\frac{49 - 36}{36} \right) \times 100$$

$$= 36.11 \%$$

अतः, विकल्प B सही उत्तर है।

52. D

Sol. 2016 में व्यय का केन्द्रीय कोण = 2016 में व्यय / कुल व्यय * 360

$$= \left(\frac{350}{210 + 300 + 350 + 450 + 490} \right) \times 360$$

$$= \frac{350}{1790} \times 360$$

$$= 70.39^\circ$$

अतः, विकल्प D सही उत्तर है।

53. A

Sol. 2014, 2016 और 2018 में औसत व्यय = $\frac{210 + 350 + 490}{3} = 350$

अभीष्ट राजस्व = $1.2 \times 350 = 420$ करोड़

2016 में राजस्व 420 करोड़ है।

अतः, विकल्प A सही उत्तर है।

54. B

Sol. 2014, 2015 और 2018 में कुल राजस्व = $275 + 350 + 527 = 1152$

2016 और 2017 में कुल व्यय = $350 + 450 = 800$

अभीष्ट प्रतिशत = $\left(\frac{1152 - 800}{800} \right) \times 100 = 44\%$

अतः, विकल्प B सही उत्तर है।

55. A

Sol. $\frac{4}{5} \times 1 \frac{1}{9} \div \frac{8}{15} + \left(5 \frac{1}{4} \div \frac{3}{7} \text{ of } \frac{1}{4} \times \frac{2}{7} \right) \div 5 \frac{3}{5} - \frac{1}{4} \div \frac{3}{2}$

$$= \frac{4}{5} \times \frac{10}{9} \div \frac{8}{15} + \left(\frac{21}{4} \div \frac{3}{28} \times \frac{2}{7} \right) \div \frac{28}{5} - \frac{1}{4} \div \frac{3}{2}$$

$$= \frac{4}{5} \times \frac{10}{9} \div \frac{8}{15} + 14 \div \frac{28}{5} - \frac{1}{4} \div \frac{3}{2}$$

$$= \frac{5}{3} + \frac{5}{2} - \frac{1}{6}$$

$$= \frac{10 + 15 - 1}{6}$$

$$= \frac{24}{6} = 4$$

अतः, विकल्प A सही उत्तर है।

56. C

Sol. माना कुल दूरी d है।

$$\text{दूसरी आधी दूरी में गति} = 20 \times \frac{18}{5} = 72 \text{ किमी/घंटा}$$

प्रश्नानुसार,

$$\frac{d}{2 \times 60} + \frac{d}{2 \times 72} = 5 \frac{1}{2}$$

$$\Rightarrow \frac{d}{24} \left(\frac{1}{5} + \frac{1}{6} \right) = \frac{11}{2}$$

$$\Rightarrow \frac{d}{12} \left(\frac{5+6}{30} \right) = 11$$

$$\Rightarrow d = 360 \text{ किमी}$$

अतः, विकल्प C सही उत्तर है।

57. A

Sol. $\frac{\frac{8}{3} \div \frac{3}{5} \times \frac{7}{5}}{\frac{5}{3} \div \frac{5}{7} \times \frac{8}{9}} \div 15$

$$= \frac{\frac{40}{9} \times \frac{7}{5}}{\frac{7}{3} \times \frac{8}{9}} \div 15$$

$$\begin{aligned}
 &= \frac{\frac{56}{9}}{\frac{56}{27}} \div 15 \\
 &= \frac{1}{5}
 \end{aligned}$$

अतः, विकल्प A सही उत्तर है।

58. B

Sol. माना अंकित मूल्य y रुपये है।

प्रश्नानुसार,

$$y \left(\frac{100 - 15}{100} \right) \left(\frac{100 - 20}{100} \right) \left(\frac{100 - 10}{100} \right) = 153$$

$$\Rightarrow y \times \frac{17}{20} \times \frac{4}{5} \times \frac{9}{10} = 153$$

$$\Rightarrow y = 250$$

तो, लाभ = अंकित मूल्य – लागत मूल्य = 250 – 214 = 36 रुपये

अतः, विकल्प B सही उत्तर है।

59. C

Sol. पहले वर्ष के अंत में शेष राशि = $\left(\frac{100 + 10}{100} \right) 8000 - 2800$

$$= 8800 - 2800 = 6000$$

दूसरे वर्ष के अंत में शेष राशि = $\left(\frac{100 + 10}{100} \right) 6000 - 2600$

$$= 6600 - 2600 = 4000$$

तो, 4 वर्षों के बाद राशि = $\left(\frac{100 + 10}{100} \right)^2 4000$

$$= \frac{121}{100} \times 4000 = 4840$$

अतः, विकल्प C सही उत्तर है।

60. D

Sol. A, B, C और D के अनुपात की गणना

$$\begin{array}{rcl} A & : & B & : & C & : & D \\ 3 & : & 2 & & & & \times 9 \\ & & 9 & : & 8 & & \times 2 \\ & & & & 4 & : & 3 & \times 4 \\ \hline 27 & : & 18 & : & 16 & : & 12 \end{array}$$

अतः A, B, C और D का अनुपात $27 : 18 : 16 : 12$ है।

अनुपातों का योग = $27 + 18 + 16 + 12 = 73$

राशि (x) =

B और D के हिस्सों के बीच का अंतर * अनुपातों का योग / B और D के अनुपातों के बीच का अंतर

$$= 708 \times \frac{73}{18 - 12} = 708 \times \frac{73}{6}$$

= 8614 रुपये

अतः, विकल्प D सही उत्तर है।

61. C

Sol. दिया गया है:

4 अंकीय संख्याओं 1244, 2345, 33x3 और 4x38 का औसत = 2925

सभी 4 संख्याओं का योग = 2925×4

$$\Rightarrow 1244 + 2345 + 33x3 + 4x38 = 11700$$

$$\Rightarrow 3589 + 3300 + 10x + 3 + 4000 + 100x + 38 = 11700$$

$$\Rightarrow 110x = 11700 - 10930$$

$$\Rightarrow 110x = 770$$

$$\Rightarrow x = 770/110 = 7$$

अब, $(5x + 3)$ और $(9x - 5)$ का औसत

$$= \frac{5 \times 7 + 3 + 9 \times 7 - 5}{2} = \frac{35 + 3 + 63 - 5}{2}$$

$$= \frac{96}{2} = 48$$

अतः, विकल्प C सही उत्तर है।

62. C

Sol. माना कुल कार्य $144x$ इकाई है।

तो, X की दक्षता $= 144x/16 = 9x$ इकाई/दिन

और Y की दक्षता $= 144x/24 = 6x$ इकाई/दिन

X और Y द्वारा 4 दिनों में किया गया कार्य $= (9x + 6x) \times 4 = (15x) \times 4 = 60x$ इकाई

शेष कार्य (Z द्वारा $10\frac{1}{2}$ दिनों में किया गया) $= 144x - 60x = 84x$ इकाई

इसलिए, Z की दक्षता $= 84x/10.5 = 8x$ इकाई/दिन

Y और Z की संयुक्त दक्षता $= 6x + 8x = 14x$ इकाई/दिन

Y और Z द्वारा समान कार्य के $\frac{7}{8}$ भाग को पूरा करने में लिया गया समय

$$= (144x) \times \frac{7}{8} \times \frac{1}{14x} = 9 \text{ दिन}$$

अतः, विकल्प C सही उत्तर है।

63. B

Sol. 5, 6, 7 और 21 का L.C. = 210

संख्या $210x + 4$ के रूप में होनी चाहिए।

अतः पांच अंकों की सबसे छोटी संख्या होगी $210 \times 48 + 4$

$$= 10084$$

10084 के अंकों का योग = $1 + 0 + 0 + 8 + 4 = 13$

अतः, विकल्प B सही उत्तर है।

64. A

Sol. मान लीजिए राशि x रुपये है।

तो, प्रश्न के अनुसार,

$$[(x) + (x) \times 3 \times (r + 2)\%] - [(x) + (x) \times 3 \times (r)\%] = 16510 - 15748$$

$$\Rightarrow 0.03xr + 0.06x - 0.03xr = 762$$

$$\Rightarrow 0.06x = 762$$

$$\Rightarrow x = 762/0.06 = 12700$$

अब,

$$(x) + (x) \times 3 \times (r)\% = 15748$$

$$\Rightarrow 12700 + 12700 \times 3 \times r\% = 15748$$

$$\Rightarrow 381r = 15748 - 12700$$

$$\Rightarrow r = 3048/381 = 8$$

अतः, विकल्प A सही उत्तर है।

65. B

Sol. मान लें कि पुरुष की दक्षता m इकाई/दिन हो और महिला की दक्षता w इकाई/दिन है

प्रश्न के अनुसार, दोनों मामलों में कुल कार्य

$$(5m + 2w) \times 9 = (11m + 5w) \times 4$$

$$\Rightarrow 45m + 18w = 44m + 20w$$

$$\Rightarrow 45m - 44m = 20w - 18w$$

$$\Rightarrow m = 2w$$

अब, कुल कार्य = $(5m + 2w) \times 9$

$$= (5 \times 2w + 2w) \times 9$$

$$= (10w + 2w) \times 9$$

$$= 12w \times 9 = 108w$$

कार्य को 6 दिनों में पूरा करने के लिए आवश्यक महिलाओं की संख्या

$$= 108w/6 = 18w$$

इसलिए, 6 दिनों में काम पूरा करने के लिए 18 महिलाओं की आवश्यकता है।

अतः, विकल्प B सही उत्तर है।

66. D

Sol. माना वस्तु का क्रय मूल्य x रुपये है।

तो, प्रश्न के अनुसार,

वस्तु को 870 रुपये में बेचने पर लाभ = $2 \times (\text{इसे } 450 \text{ रुपये में बेचने पर हानि})$

$$\Rightarrow (870 - x) = 2 \times (x - 450)$$

$$\Rightarrow 870 - x = 2x - 900$$

$$\Rightarrow 2x + x = 870 + 900$$

$$\Rightarrow 3x = 1770$$

$$\Rightarrow x = 1770/3 = 590$$

अब, 15% का लाभ प्राप्त करने के लिए विक्रय मूल्य = लागत + लाभ

$$= 590 + 590 \times 15\% = 590 + 88.5$$

$$= 678.50 \text{ रुपये}$$

अतः, विकल्प D सही उत्तर है।

67. A

Sol. 60 संतरों की लागत (72 रुपये में 10 की दर से) = $\frac{60}{10} \times 72 = 432$ रुपये

60 संतरों की लागत (90 रुपये में 12 की दर से) = $\frac{60}{12} \times 90 = 450$ रुपये

120 संतरों की कुल लागत = $432 + 450 + 118 = 1000$ रुपये

सभी 120 संतरों का कुल विक्रय मूल्य (26% लाभ)

$$= 1000 + 1000 \times 26\% = 1000 + 260 = 1260 \text{ रुपये}$$

$$32 \text{ संतरों का विक्रय मूल्य} = 1260 \times \frac{32}{120} = 336 \text{ रुपये}$$

अतः, विकल्प A सही उत्तर है।

68. B

Sol. दिया गया है:

78 मीटर, 160 मीटर और 178 मीटर भुजाओं वाले एक त्रिभुजाकार पार्क का क्षेत्रफल = एक आयताकार बगीचे का क्षेत्रफल जिसकी भुजाएं $13:12$ के अनुपात में हैं।

चूंकि 78, 160 और 178 पाइथागोरस ट्रिप्लेट हैं।

$$\text{त्रिभुजाकार पार्क का क्षेत्रफल} = \frac{1}{2} \times 78 \times 160 = 6240 \text{ मीटर}^2$$

माना आयताकार बगीचे की बड़ी भुजा $13x$ मीटर है

$$\text{तो, आयताकार बगीचे की छोटी भुजा} = (13x) \times \frac{12}{13} = 12x \text{ मीटर}$$

अब, आयताकार बगीचे का क्षेत्रफल = त्रिभुजाकार पार्क का क्षेत्रफल

$$\Rightarrow (13x) \times (12x) = 6240$$

$$\Rightarrow 156x = 6240$$

$$\Rightarrow x^2 = 6240/156 = 40$$

$$\Rightarrow x = \sqrt{40} = 2\sqrt{10}$$

अतः आयताकार बगीचे की छोटी भुजा = $12 \times 2\sqrt{10}$

$$= 24\sqrt{10} \text{ मीटर}$$

अतः, विकल्प B सही उत्तर है।

69. C

$$\text{Sol. } 16 - 4 \times [4 - \{98 \div 7 \text{ का } 2 - (6 - 36 \div 6 \times 2)\}]$$

$$= 16 - 4 \times [4 - \{98 \div 7 \text{ का } 2 - (6 - 6 \times 2)\}]$$

$$= 16 - 4 \times [4 - \{98 \div 7 \text{ का } 2 - (6 - 12)\}]$$

$$= 16 - 4 \times [4 - \{98 \div 7 \text{ का } 2 + 6\}]$$

$$= 16 - 4 \times [4 - \{98 \div 14 + 6\}]$$

$$= 16 - 4 \times [4 - \{7 + 6\}]$$

$$= 16 - 4 \times [4 - 13]$$

$$= 16 - 4 \times [-9]$$

$$= 16 + 36$$

$$= 52$$

अतः, विकल्प C सही उत्तर है।

70. D

Sol. माना रिया की प्रारंभिक आय $300x$ रुपये है।

$$\text{तो, रिया का प्रारंभिक व्यय} = (300x) \times 66\frac{2}{3}\% = 200x \text{ रुपये}$$

$$\text{रिया की प्रारंभिक बचत} = 300x - 200x = 100x \text{ रुपये}$$

$$\text{रिया की नई आय} = 300x + (300x) \times 16\%$$

$$= 300x + 48x = 348x \text{ रुपये}$$

$$\text{रिया की नई बचत} = (100x) + (100x) \times 17\% = 100x + 17x = 117x \text{ रुपये}$$

$$\text{अब, रिया का नया व्यय} = 348x - 117x = 231x \text{ रुपये}$$

$$\text{रिया के व्यय में वृद्धि (\% में)} = \left(\frac{231x - 200x}{200x} \right) \times 100 = \frac{31x}{2x} \times 100$$

$$= 15.5\%$$

अतः, विकल्प D सही उत्तर है।

71. C

Sol. दिया गया है:

धारा के अनुकूल एक नाव की गति, धारा के प्रतिकूल नाव की गति की 2.5 गुना है।

माना धारा के अनुकूल नाव की गति x किमी/घंटा है

तो, धारा के प्रतिकूल नाव की गति $= (x)/2.5 = 0.4x$ किमी/घंटा

अब, प्रश्न के अनुसार,

नाव द्वारा धारा के अनुकूल 30 किमी और धारा के प्रतिकूल 30 किमी जाने में लिया गया समय = 7 घंटे

$$\Rightarrow \frac{30}{x} + \frac{30}{0.4x} = 7$$

$$\Rightarrow \frac{30 + 75}{x} = 7$$

$$\Rightarrow 7x = 105$$

$$\Rightarrow x = 105/7 = 15$$

अतः धारा के अनुकूल नाव की गति 15 किमी/घंटा है

अतः, विकल्प C सही उत्तर है।

72. A

Sol. मान लीजिए कि राशि A रुपये है।

तो, परेशन के अनुसार,

$$2\frac{1}{2} \text{ वर्षों के लिए } x\% \text{ प्रति वर्ष की दर से साधारण ब्याज} + 585 = 2\frac{1}{2} \text{ वर्षों के लिए } (x+3)\% \text{ की दर से साधारण ब्याज}$$

$$\Rightarrow A \times (x)\% \times 2.5 + 585 = A \times (x+3)\% \times 2.5$$

$$\Rightarrow 0.025Ax + 585 = 0.025Ax + 0.075A$$

$$\Rightarrow 0.075A = 585$$

$$\Rightarrow A = 585/0.075 = 7800$$

इसलिए, राशि 7800 रुपये है।

अब, $4\frac{2}{3}$ वर्षों के लिए 14% वार्षिक की दर से 7800 रुपये पर साधारण ब्याज

$$= 7800 \times 4\frac{2}{3} \times 14\%$$

$$= 7800 \times \frac{14}{3} \times 14\%$$

$$= 5096 \text{ रुपये}$$

अतः, विकल्प A सही उत्तर है।

73. A

Sol. दिया गया है:

155.5 सेमी की औसत ऊंचाई वाले 108 व्यक्तियों का एक समूह

$$\text{समूह में पुरुषों की संख्या} = 108 \times \frac{5}{9} = 60$$

$$\text{महिलाओं की संख्या} = 108 - 60 = 48$$

अब, समूह में सभी व्यक्तियों की औसत ऊंचाई = 155.5 सेमी (दिया गया है)

⇒ पुरुषों की ऊंचाई का योग + महिलाओं की ऊंचाई का योग / समूह में व्यक्तियों की संख्या = 155.5

$$\Rightarrow \frac{60 \times 158.7 + 48 \times (x)}{108} = 155.5$$

$$\Rightarrow 9522 + 48x = 16794$$

$$\Rightarrow 48x = 16794 - 9522$$

$$\Rightarrow 48x = 7272$$

$$\Rightarrow x = 7272/48 = 151.5$$

अतः, विकल्प A सही उत्तर है।

74. D

Sol. माना वस्तु का अंकित मूल्य $100x$ रुपये है।

$$\text{तो, डीलर के लिए लागत मूल्य} = (100x) - (100x) \times 10\%$$

$$= 100x - 10x = 90x \text{ रुपये}$$

$$\text{और डीलर का विक्रय मूल्य} = (100x) + (100x) \times 15\%$$

$$= 100x + 15x = 115x \text{ रुपये}$$

$$\text{लाभ (\%)} = \left(\frac{115x - 90x}{90x} \right) \times 100 = \left(\frac{25x}{90x} \right) \times 100 = 27.78\% \approx 28\%$$

अतः, विकल्प D सही उत्तर है।

75. D

Sol. दिया गया है:

जब 24, 33, 20 और 26 में से प्रत्येक में से x को घटाया जाता है, तो इस क्रम में प्राप्त संख्याएं समानुपाती होती हैं।

$$\frac{24-x}{33-x} = \frac{20-x}{26-x}$$

$$\Rightarrow 624 - 26x - 24x + x^2 = 660 - 33x - 20x + x^2$$

$$\Rightarrow 624 - 50x = 660 - 53x$$

$$\Rightarrow 53x - 50x = 660 - 624$$

$$\Rightarrow 3x = 36$$

$$\Rightarrow x = 36/3 = 12$$

अब, $(2x + 1)$ और $(5x - 11)$ के बीच का मध्यानुपाती

$$= \sqrt{(2x + 1)(5x - 11)}$$

$$= \sqrt{(2 \times 12 + 1)(5 \times 12 - 11)} = \sqrt{25 \times 49}$$

$$= 35$$

अतः, विकल्प D सही उत्तर है।

76. A

Sol. • भारतीय संविधान ने भारत सरकार अधिनियम, 1935 से कई संस्थागत विवरण और प्रक्रियाओं को अपनाया।

• इसे मूल रूप से अगस्त 1935 में शाही स्वीकृति प्राप्त हुई थी।

• यह ग्रेटर लंदन अथॉरिटी एक्ट 1999 को बनने से पहले तक, संसद का तब तक का सबसे लंबा अधिनियम था।

• भारत सरकार अधिनियम, 1935 में 321 धाराएँ और 10 अनुसूचियाँ हैं।

• भारतीय भागीदारी अधिनियम 1932 एक साझेदारी को दो या दो से अधिक व्यक्तियों के बीच संबंध के रूप में परिभाषित करता है जो उन सभी द्वारा चलाए जा रहे व्यवसाय के लाभ को साझा करने के लिए सहमत होते हैं या उन सभी के लिए कार्य करने वाले एक या अधिक व्यक्तियों द्वारा।

• भारतीय पंजीकरण अधिनियम दस्तावेजों के पंजीकरण से संबंधित अधिनियमों को समेकित करने के लिए एक अधिनियम है।

77. A

Sol. • हेलिकोबैक्टर पाइलोरी जीवाणु पेटिक अल्सर के लिए जिम्मेदार है।

• यह एक ग्राम-नकारात्मक, माइक्रोएरोफिलिक, सर्पिल (पेचदार) जीवाणु है जो आमतौर पर पेट में पाया जाता है।

• इसकी पहचान सबसे पहले 1982 में ऑस्ट्रेलियाई डॉक्टर बैरी मार्शल और रॉबिन वॉरेन ने की थी।

- कैम्पिलोबैकटीरियोसिस बैकटीरिया के कारण होने वाला एक संक्रमण है जो आपको दूषित भोजन और पानी से हो सकते हैं।
- बैसिलस सेरेस मिट्टी, वनस्पति और भोजन में पाया जाने वाला एक वैकल्पिक रूप से अवायवीय, विष-उत्पादक ग्राम-पॉजिटिव जीवाणु है।
- एस्चेरिचिया कोलाई एक बैकटीरिया है जो स्वस्थ लोगों और जानवरों की आंतों में रहता है।

78. B

Sol. • मुगल चंगेज खान के वंशज थे।

- चंगेज खान मंगोल साम्राज्य के संस्थापक और पहले महान खान

(ग्रेट खान) थे।

- गयासुद्दीन बलबन दिल्ली के ममलुक वंश का नौवां सुल्तान था।
- वह अंतिम शास्त्री सुल्तान, नसीरुद्दीन महमूद का राज्य-संरक्षक था।
- मुहम्मद तुगलक तुगलक वंश के संस्थापक थे और वह भारत के इतिहास में सबसे विवादास्पद शासकों में से एक थे।
- मुगल साम्राज्य दक्षिण एशिया में एक प्रारंभिक आधुनिक इस्लामी साम्राज्य था।

79. C

Sol. • घास पारिस्थितिकी तंत्र का एक जैविक घटक है।

- जैविक घटक जीवित चीजें हैं जो एक पारिस्थितिकी तंत्र को आकार देते हैं।
- वे जीवित चीजें हैं जिनका पर्यावरण में अन्य जीवों पर प्रत्यक्ष या अप्रत्यक्ष प्रभाव पड़ता है।
- पारिस्थितिकी तंत्र पारिस्थितिकी की संरचनात्मक और कार्यात्मक इकाई है जहां जीवित जीव एक दूसरे के साथ और आसपास के पर्यावरण के साथ बातचीत करते हैं।
- खनिज पृथ्वी पर और खाद्य पदार्थों में वे तत्व हैं जो हमारे शरीर को सामान्य रूप से विकसित और कार्य करने के लिए आवश्यक हैं।
- घास एक बहुत ही सामान्य पौधा है जिसमें बड़ी संख्या में पतली, नुकीली, हरी पत्तियां होती हैं जो जमीन की सतह को ढकती हैं।

80. D

Sol. • ओडिशा में नवकलेबार मनाया जाता है।

- यह जगन्नाथ मंदिर, पुरी में चार हिंदू देवताओं के लकड़ी के चिह्नों का अनुष्ठानिक मनोविनोद है।

- यह पहली बार 1575 ई. में यदुवंशी भोई राजा रामचंद्र देव द्वारा आयोजित किया गया था।
- यह पुरी में जगन्नाथ के प्रतीकात्मक निधन और पुनर्जन्म का प्रतीक है।
- नामसंग लेखा समुदाय के महत्वपूर्ण त्योहारों में से एक है जिसे नए साल के रूप में मनाया जाता है।
- चापचर कुट एक वसंत त्योहार है जिसे बहुत ही हर्षोल्लास और उल्लास के साथ मनाया जाता है।

81. A

Sol. • ब्रह्मपुत्र हिमालय की पूर्वी सीमा का प्रतीक है।

- यह एक ट्रांसबाउंडरी नदी है जो तिब्बत, भारत और बांग्लादेश से होकर बहती है।
- यह डिस्चार्ज या बहाव के हिसाब से दुनिया की 9वीं सबसे बड़ी और 15वीं सबसे लंबी नदी है।
- यह दुनिया की उन कुछ नदियों में से एक है जो ज्वारीय ओर दिखाती है।
- काली नदी भारत में कर्नाटक राज्य के उत्तर कन्नड़ जिले में बहने वाली एक नदी है।
- तिस्ता सिक्किम की सबसे बड़ी नदी और पश्चिम बंगाल की दूसरी सबसे बड़ी नदी है।

82. C

Sol. • शिकायत निवारण का अधिकार उपभोक्ता का अधिकार है।

- जब भी उपभोक्ता के अधिकारों का उल्लंघन हुआ हो, मुआवजे की मांग करने का अधिकार।
- उपभोक्ता अधिकार एक उपभोक्ता को एक विक्रेता निर्माता द्वारा धोखा दिए जाने से बचाने के लिए दिए गए अधिकार हैं।
- ये आम तौर पर कानून के एक निकाय के संदर्भ में होते हैं जो उन चीजों से संबंधित होते हैं जो माल के उत्पादकों को ग्राहकों को नुकसान से बचाने के लिए करना चाहिए।
- न्यायालय द्वारा प्रदान किए गए अधिकार हैं:
 - सुरक्षा का अधिकार
 - सूचना का अधिकार
 - चुनने का अधिकार
 - सुनवाई का अधिकार

e) शिकायत निवारण का अधिकार

f) उपभोक्ता शिक्षा का अधिकार

g) स्वस्थ पर्यावरण का अधिकार

h) मूलभूत आवश्यकताओं का अधिकार

83. B

Sol. • मार्च 1919 में बॉम्बे में खिलाफत समिति का गठन किया गया था।

• यह ब्रिटिश भारत के मुसलमानों द्वारा शुरू किया गया एक अखिल इस्लामवादी राजनीतिक विरोध अभियान था।

• यह प्रथम विश्व युद्ध के बाद के वर्षों में भारतीय मुसलमानों द्वारा भारतीय राष्ट्रवाद से संबद्ध एक आंदोलन था।

• सप्तर्स समिति की रिपोर्ट ने भारतीय उपमहाद्वीप को भारत और पाकिस्तान के दो राज्यों में विभाजित करने के प्रस्ताव को खारिज कर दिया और एक एकीकृत राज्य में अल्पसंख्यकों की सुरक्षा के लिए कई सिफारिशें कीं।

• इसे नवंबर 1944 में गैर-पार्टी सम्मेलन द्वारा नियुक्त एक समिति द्वारा तैयार किया गया था।

84. B

Sol. • पलवार (मलिंग) मृदा संरक्षण की एक विधि है।

• यह मिट्टी की नमी का संरक्षण करता है, मिट्टी के पोषक तत्वों की स्थिति को बढ़ाता है, कटाव के नुकसान को नियंत्रित करता है, फसल के पौधों में खरपतवारों को दबाता है और कीटनाशकों और उर्वरकों के अवशिष्ट प्रभावों को दूर करता है।

• मृदा संरक्षण मिट्टी की सबसे ऊपरी परत के नुकसान की रोकथाम है।

• अत्यधिक चराई पशुओं या वन्यजीवों द्वारा उस बिंदु तक चराई जाती है जहां घास का आवरण समाप्त हो जाता है, जिससे मिट्टी के नंगे, असुरक्षित भूखंड (पैच) निकल जाते हैं।

• वनोन्मूलन (वनों की कटाई) जंगल के अलावा किसी चीज के लिए जगह बनाने के लिए पेड़ों को स्थायी रूप से हटाने को संदर्भित करता है।

• भूस्खलन को एक ढलान के नीचे चट्टान, मलबे या पृथकी के द्रव्यमान की गति के रूप में परिभाषित किया गया है।

85. A

Sol. • केज़ांग डी थोंगडोक ने शहद शिकार पर एक लघु डाक्यूमेंट्री के लिए दादा साहब फाल्के पुरस्कार 2020 जीता।

• दादा साहब फाल्के पुरस्कार सिनेमा के क्षेत्र में भारत का सर्वोच्च पुरस्कार है।

- यह फिल्म समारोह निदेशालय द्वारा राष्ट्रीय फिल्म पुरस्कार समारोह में प्रतिवर्ष प्रस्तुत किया जाता है।
- इन्हें लोकप्रिय रूप से भारतीय सिनेमा के पिता के रूप में जाना जाता है और अक्सर माना जाता है।
- अरमान मलिक को कई भाषाओं में उनके गायन के लिए जाना जाता है और इन्हें रोमांस के राजकुमार के रूप में भी जाना जाता है।

86. C

Sol. ● विनी महाजन पंजाब की पहली महिला मुख्य सचिव थीं।

- पंजाब दुनिया की सबसे पुरानी और समृद्ध संस्कृतियों में से एक है।
- मुख्य सचिव राज्य सरकार का सर्वोच्च कार्यकारी अधिकारी और वरिष्ठतम् सिविल सेवक होता है।
- वह राज्य प्रशासन के सभी मामलों पर मुख्यमंत्री के प्रमुख सलाहकार के रूप में कार्य करता है।
- वह भारतीय प्रशासनिक सेवा का एक अधिकारी है।

87. D

Sol. ● डॉ राजेंद्र प्रसाद संविधान सभा के अध्यक्ष थे।

- भारत की संविधान सभा को भारत के संविधान के निर्माण के लिए चुना गया था।
- 20वीं सदी के मध्य में जवाहरलाल नेहरू भारत में एक केंद्रीय व्यक्ति थे।
- वह भारत के पहले और सबसे लंबे समय तक सेवा करने वाले प्रधान मंत्री थे।
- सरदार वल्लभभाई पटेल ने 1947 से 1950 तक भारत के पहले उप प्रधान मंत्री के रूप में कार्य किया।
- वह भारतीय राष्ट्रीय कांग्रेस के रुद्धिवादी सदस्यों में से एक थे।

88. D

Sol. ● सोनल मानसिंह 1992 में पद्म भूषण पाने वाली सबसे कम उम्र की प्राप्तकर्ता थीं।

- वह पद्म विभूषण से सम्मानित होने वाली पहली भारतीय नृत्यांगना हैं।
- यामिनी कृष्णमूर्ति भारत की शुरुआती शास्त्रीय नृत्यांगनाओं में से एक हैं।

- मल्लिका साराभाई भारत के रत्नों में से एक हैं जो बहुमुखी प्रतिभाओं से संपन्न हैं।
- पद्म भूषण भारत गणराज्य में तीसरा सबसे बड़ा नागरिक पुरस्कार है।
- यह पुरस्कार जाति, व्यवसाय, पद या लिंग के भेद के बिना उच्च कोटि की विशिष्ट सेवा के लिए दिया जाता है।

89. C

Sol. • 'माई एक्सप्रेसेंट्स विद ट्रूथ' महात्मा गांधी की आत्मकथा है।

- इसमें उनके बचपन से लेकर 1921 तक के जीवन को शामिल किया गया है।
- यह साप्ताहिक किश्तों में लिखा गया और 1925 से 1929 तक उनकी पत्रिका नवजीवन में प्रकाशित हुआ।
- महात्मा गांधी भारतीय स्वतंत्रता आंदोलन के जनक थे और उन्हें राष्ट्रपिता के रूप में माना जाता था।
- 20वीं सदी के मध्य में जवाहरलाल नेहरू भारत में एक केंद्रीय व्यक्ति थे।
- सुभाष चंद्र बोस भारत के सबसे प्रतिष्ठित स्वतंत्रता सेनानियों में से एक हैं।

90. C

Sol. • संयुक्त राष्ट्र में चीन के पास वीटो पावर है।

- वीटो शक्ति संयुक्त राष्ट्र सुरक्षा परिषद के पांच स्थायी सदस्यों की खास शक्ति है।
- सभी पांच स्थायी सदस्यों ने कभी न कभी वीटो के अधिकार का प्रयोग किया है।
- भूटान पूर्वी हिमालय में चीन और भारत के बीच स्थित एक भूमि से घिरा देश है।
- इसे ड्रुक यूल या लैंड ऑफ द थंडर ड्रैगन के नाम से जाना जाता है।
- बांग्लादेश दुनिया के सबसे घनी आबादी वाले देशों में से एक है।

91. D

Sol. • उत्तर-पश्चिम, उत्तर और उत्तर-पूर्व में यंग फोल्ड पर्वत पहाड़ भारत को घेरते हैं।

- ये 10 से 25 मिलियन वर्ष की आयु के हैं और टेक्टोनिक गतिविधि के कारण भूपर्फटी के मुड़ने के कारण बनते हैं।
- ये दुनिया में सबसे आम प्रकार के पहाड़ हैं।
- गुंबद पहाड़ आमतौर पर मुड़े हुए पहाड़ों की तरह ऊँचे नहीं होते हैं क्योंकि नीचे के मैग्मा का बल पर्याप्त जोर से धक्का नहीं देता है।

- ये तब होते हैं जब पृथ्वी के अंदर तरल चट्टान अपने ऊपर की जमीन को ऊपर की ओर धकेलती है।
- ब्लॉक पर्वत तब बनते हैं जब दो टेक्टोनिक प्लेट एक दूसरे से दूर चली जाती हैं जिससे पृथ्वी की सतह पर दरारें आ जाती हैं।

92. D

Sol. • कोलेनकाइमा पौधों में लचीलेपन के लिए उत्तरदायी है।

- यह अनियमित कोशिका भित्ति के साथ जीवित लम्बी कोशिकाओं के ऊतकों का समर्थन करता है।
- यह एक सहायक ऊतक है जो असमान रूप से मोटी, गैर-लिपिकृत प्राथमिक दीवारों के साथ अधिक या कम लम्बी जीवित कोशिकाओं से बनता है।
- पैरेन्काइमा एक प्रकार का ऊतक है जिसमें कोशिकाएं होती हैं जो एक आवश्यक कार्य करती हैं।
- स्क्लेरेन्काइमा वह ऊतक है जो पौधे को ठोस और कठोर बनाता है और पौधों में पाया जाने वाला एक प्रकार का स्थायी ऊतक है।
- मेरिस्टेमेटिक ऊतक वृद्धि ऊतक और अधिकांश कोशिका विभाजन का स्थान है।

93. A

Sol. • गड़गड़ाहट की आवाज प्रकाश की चमक की तुलना में बहुत बाद में सुनाई देती है और इससे यह पता चलता है कि ध्वनि की गति प्रकाश की गति से बहुत कम है।

- प्रकाश की गति एक सार्वभौमिक भौतिक स्थिरांक है जो भौतिकी के कई क्षेत्रों में महत्वपूर्ण है।
- ध्वनि की गति एक ध्वनि तरंग द्वारा प्रति इकाई समय में तय की गई दूरी है क्योंकि यह एक लोचदार माध्यम से चलती है।
- इसका सटीक मान को 299792458 मीटर प्रति सेकंड के रूप में परिभाषित किया गया है।
- एक आदर्श गैस में ध्वनि की चाल केवल उसके तापमान और संघटन पर निर्भर करती है।

94. C

Sol. • हड्ड्यावासियों को वर्तमान राजस्थान से तांबे की धातु प्राप्त हुई थी।

- यह बहुत ही उच्च तापीय और विद्युत चालकता के साथ एक नरम, लचीला और नमनीय धातु है।
- यह एक आवश्यक ट्रेस खनिज है जो शरीर के सभी ऊतकों में होता है।
- एल्युमिनियम पृथ्वी की परत (भू-पर्फटी) में सबसे प्रचुर मात्रा में मिलने वाली धातु है लेकिन प्रकृति में शायद ही कभी मुक्त अवस्था में पाया जाता है।

- लोहा जीवन के सभी रूपों के लिए एक आवश्यक तत्व है और गैर विषेला है।

- कैल्शियम मानव शरीर के लिए सबसे महत्वपूर्ण खनिजों में से एक है और यह हड्डियों और दांतों में एक प्रमुख संरचनात्मक तत्व है।

95. C

Sol. • उस्ताद बिस्मिल्लाह खाँ शहनाई वादन के लिए प्रसिद्ध थे।

- वह हिंदुस्तानी शास्त्रीय संगीत के सबसे पहचाने जाने वाले चेहरों में से एक हैं।

- शहनाई लकड़ी से बनी होती है, जिसके एक सिरे पर डबल ईख और दूसरे सिरे पर धातु या लकड़ी की फ्लेयर्ड घंटी होती है।

- यह व्यापक रूप से विवाह, जुलूस और मंदिरों में उपयोग की जाती है।

- सितार भारतीय उपमहाद्वीप से उत्पन्न एक तार वाला वाद्य यंत्र है।

- संतूर लकड़ी, स्टील और बांस से बना एक तार वाला वाद्य यंत्र है।

96. B

Sol. • उपभोक्ता संरक्षण अधिनियम 1986 में अधिनियमित किया गया था।

- यह भारत में उपभोक्ताओं के हितों की रक्षा के लिए अधिनियमित भारत की संसद का एक अधिनियम था।

- इसे उपभोक्ता संरक्षण अधिनियम, 2019 द्वारा प्रतिस्थापित किया गया।

- यह उपभोक्ता शिकायतों की आसान और तेज क्षतिपूर्ति करता है।

- यह अक्टूबर 1986 में विधानसभा में पारित किया गया था और 24 दिसंबर 1986 को लागू हुआ था।

- यह आम उपभोक्ताओं को उनकी शिकायतों का कम खर्चाला और अक्सर त्वरित निवारण प्राप्त करने में सक्षम बनाता है।

97. C

Sol. • खमीर शरीर के बाहर की खाद्य सामग्री को तोड़ता है और फिर उसे अवशोषित करता है।

- ये यूकेरियोटिक, एकल-कोशिका वाले सूक्ष्मजीव हैं जिन्हें कवक साम्राज्य के सदस्यों के रूप में वर्गीकृत किया गया है।

- जोंक (लीचेस) उपर्ग हिरुडीनिया में खंडित कीड़े हैं जो आमतौर पर एक्टोपैरासिटिक होते हैं।

- ये कीड़े हैं जो पानी या जमीन पर रहते हैं और मछली, मेंढक, छिपकली, पक्षियों आदि से खून चूसते हैं।

- जूँ छोटे, पंखहीन, परजीवी कीड़े हैं जो मानव रक्त को पीते हैं।

- किलनी (टिक्स) वसंत, गर्मी और पतझड़ में सबसे अधिक सक्रिय होते हैं और छोटे खून चूसने वाले कीड़े हैं।

98. D

Sol. • ओलम्पिक खेल 2024 का आयोजन पेरिस में होना है।

- यह एक आगामी अंतर्राष्ट्रीय बहु-खेल आयोजन है जो 26 जुलाई से 11 अगस्त 2024 तक होने वाला है।
- यह यूरोप में होने वाले लगातार दो ओलंपिक खेलों में से पहला होगा।
- ग्रीष्मकालीन ओलंपिक आम तौर पर हर चार साल में एक बार आयोजित होने वाला एक प्रमुख अंतर्राष्ट्रीय बहु-खेल आयोजन है।
- पेरिस तीन बार ग्रीष्मकालीन ओलंपिक की मेजबानी करने वाला दूसरा शहर बन जाएगा।
- यह फ्रांस द्वारा आयोजित छठा ओलंपिक खेल होगा।

99. A

Sol. • अगस्त 2020 तक भारतीय रिजर्व बैंक के गवर्नर शक्तिकांत दास थे।

- शक्तिकांत दास वर्तमान में भारतीय रिजर्व बैंक के 25वें गवर्नर के रूप में कार्यरत हैं।
- भारतीय रिजर्व बैंक (RBI) भारत का केंद्रीय बैंक और नियामक निकाय है जो भारतीय बैंकिंग प्रणाली के नियमन के लिए जिम्मेदार है।
- मनीष सभरवाल वर्तमान में टीमलीज सर्विसेज के वाइस चेयरमैन हैं।
- नटराजन चंद्रशेखरन टाटा समूह के प्रमुख बनने वाले पहले गैर-पारसी और पेशेवर कार्यकारी अधिकारी बने।
- महेश कुमार जैन भारतीय रिजर्व बैंक के डिप्टी गवर्नर के रूप में कार्यरत हैं।

100. B

Sol. • न्यायमूर्ति मुकुंदकम शर्मा राष्ट्रीय खेल पुरस्कार 2020 के लिए खेल समिति के अध्यक्ष थे।

- राष्ट्रीय खेल पुरस्कार भारत गणराज्य के छह खेल पुरस्कारों को दिया जाने वाला सामूहिक नाम है।
- यह युवा मामले और खेल मंत्रालय द्वारा प्रतिवर्ष प्रदान किया जाता है।
- ये भारत के राष्ट्रपति द्वारा उसी समारोह में राष्ट्रपति भवन में, आमतौर पर 29 अगस्त को प्रस्तुत किए जाते हैं।
- वीरेंद्र सहवाग को व्यापक रूप से अब तक के सबसे तेज रन बनाने वाले बल्लेबाजों में से एक माना जाता है।
- राज्यवर्धन सिंह राठौर स्वतंत्रता के बाद ओलंपिक में व्यक्तिगत रजत जीतने वाले पहले भारतीय बने।