

SSC MTS 2020 Tier I : 5

Oct S3

Mock Test Questions & Solutions

Mock Test Solutions in English

Questions

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

The crow held back to the piece of bread with its claws.

- A. to the piece
 - B. The crow held back
 - C. of bread
 - D. with its claws

2. Select the most appropriate word to fill in the blank.

Rohit prepared an _____ chart on the benefits of afforestation.

3. Select the most appropriate one-word substitution for the given group of words. One who reads a lot

- | | |
|-----------|----------------|
| A. Clever | B. Bookworm |
| C. Witty | D. Intelligent |

4. 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'. The team members will meet on a airport at 7 a.m. tomorrow.

- A. substitution required
 - B. by an airport
 - C. at the airport
 - D. in the airport

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

After we had ate a hearty meal, we went to sleep.

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

Break new ground

- A. Break an old structure
 - B. Build a new house
 - C. Do or discover something new
 - D. Dig fresh ground for sowing seeds

7. Select the most appropriate word to fill in the blank.

He helped me with the lessons _____ I should fail.

- A. because
 - B. unless
 - C. so that
 - D. lest

8. Select the INCORRECTLY spelt word.

- | | |
|---------------|---------------|
| A. Pleasant | B. Persistent |
| C. Accountant | D. Reluctant |

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

We should focus on only one thing in the time.

- A. in the time
 - B. focus on
 - C. We should
 - D. only one thing

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

Please don't create panic among people during that difficult times.

- A. No substitution required B. these
C. those D. this

11. Select the INCORRECTLY spelt word.

- | | |
|---------------|---------------|
| A. Instructor | B. Contractor |
| C. Prosecutor | D. Competitor |

12. Select the most appropriate word to fill in the blank.

After the trek I felt a _____ pain in my leg.

- A. strict
 - B. stern
 - C. severe
 - D. sour

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

POTENT

- A. powerful
 - B. beautiful
 - C. graceful
 - D. wonderful

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

COMPLEX

- | | |
|-----------|-----------|
| A. knotty | B. motley |
| C. simple | D. mixed |

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

Rohan is quite popular _____ his classmates.

- | | |
|----------|------------|
| A. among | B. between |
| C. along | D. across |

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

VALIANT

- | | |
|------------|-------------|
| A. worthy | B. cowardly |
| C. gallant | D. barren |

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

LIMPID

- | | |
|------------|-----------|
| A. lucid | B. blunt |
| C. obscure | D. subtle |

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

Make impure by adding inferior substances

- | | |
|---------------|---------------|
| A. Obviate | B. Adulterate |
| C. Adjudicate | D. Obliterate |

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

We watched the workman to be removing the damaged tiles.

- | | |
|----------------|-----------------------------|
| A. to removing | B. remove |
| C. to remove | D. No substitution required |

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

Sell like hot cakes

- | | |
|-------------------|---------------------|
| A. Sell at a loss | B. Sell stale cakes |
|-------------------|---------------------|

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

We are having a great time in Darjeeling (###Q1###) _____ the temperature is hitting (###Q2###) _____ all time low this season. We did carry (###Q3###) _____ warm clothing but we completely (###Q4###) _____ our umbrellas and it has been (###Q5###) _____ ever since we got here.

Select the most appropriate option to fill in blank no.

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

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

- | | |
|---------------|-----------------|
| A. acceptable | B. capable |
| C. adequate | D. satisfactory |

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

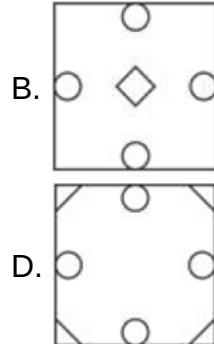
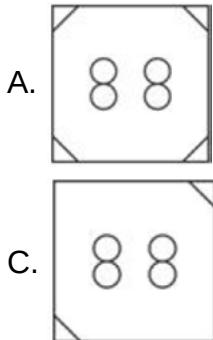
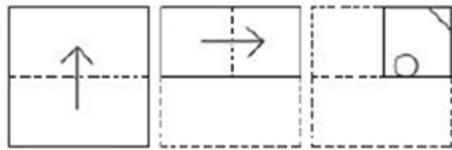
- A. forgot
 - B. failed
 - C. foiled
 - D. finished

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

- A. pouring
 - B. slashing
 - C. drenching
 - D. showering

26. Six students, L, M, N, O, P and Q, are standing facing north, but not necessarily in the same sequence. L is at one of the corners and Q is beside him. M is to the immediate right of P. M is at the second place from the right end. N is not beside Q. Who is standing to the immediate right of Q?

27. A paper is folded at the dotted lines as shown in the first two figures, and cut as shown in the third figure. How will it appear when unfolded?



28. Select the correct combination of mathematical signs to sequentially replace the *signs and balance the given equation.

$$11 * 4 * 3 * 3 * 7 * 8$$

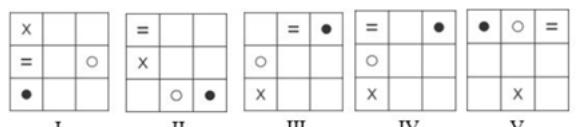
- A. +, -, \times , \div , = B. \times , \div , +, -, =
 C. +, \times , \div , -, = D. \times , -, \div , =, +

29. Select the set of numbers from the given options, which is similar to the given set.

(17, 39, 11)

- A. (13, 47, 19) B. (11, 35, 14)
 C. (18, 44, 13) D. (15, 27, 7)

30. Find which figure is to be removed so that all, starting from I, fit into a pattern.



- A. III B. IV
 C. V D. II

31. Arrange the following in a logical and meaningful order:

- I. Kamet
 II. Kanchenjunga

III. Nanda Devi

IV. Saltoro Kangri

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

Statements:

- A) Some men are Bengalis.
 - B) All women are Bengalis.

Conclusions:

- I. No Bengali is a man.

- ## II. Some women are men.

- ### III. All women are men

- #### IV. No woman is a man

- A. Both conclusions I and II follow.
B. Either conclusion II or III or IV follows.
C. Only conclusion I follows.
D. Both conclusions I and IV follow.

34. Select the option that is related to the third term in the same way as the second term is related to the first term.

Potato : Stem :: Chickpea : ?

- A. Seed B. Root

Statements:

- 1) Some boys are in class II.
 - 2) Shekhar is not in class II.

Conclusions:

- I. Shekhar is not a boy.

II. No class II student is a boy.

III. Shekhar is a boy.

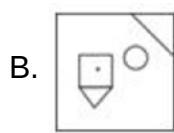
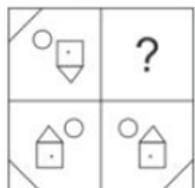
A. Both conclusions I and II follow.

B. Only conclusion II follows.

C. Both conclusions II and III follow.

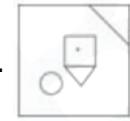
D. Either conclusion I or III follows.

37. Complete the missing portion of the given pattern by selection from the given option.





C.



D.

38. Select the option in which the number-pair does NOT share the same relationship as that shared by the given number-pair.

7 : 216

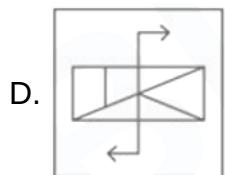
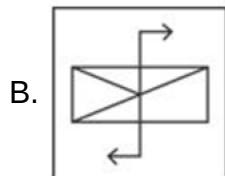
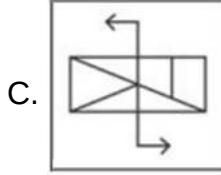
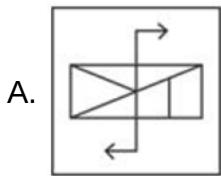
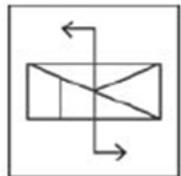
A. 9 : 512
C. 8 : 343B. 12 : 1331
D. 13 : 1724

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

$$17 \times 3 \div 6 - 2 + 7 = 55$$

A. – and \times
C. \div and \times B. \div and –
D. + and \times

40. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.



41. Select the number that can replace the question mark (?) in the given number series.

15, 19, 28, 44, ?, 105

A. 69
C. 64B. 72
D. 76

42. If in a code language, 'HOOK' is written as 'KUXW', then how will 'COKE' be written in the same code

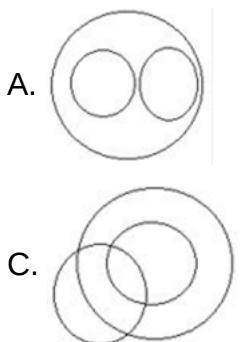
language?

43. Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

c d k n d k d c

44. If in a code language, 'WICE' is written as 'DRXV', then how will 'ROPE' be written in the same code language?

45. Which of the following diagrams indicates the best relationship among females, girls and brides?



- B.  Three concentric circles.

D.  Two overlapping circles.

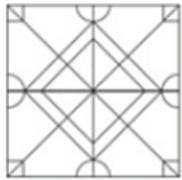
46. Select the number that does NOT belong to the given number series. 39, 46, 60, 82, 109, 144

47. 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.

HOST : JKYL :: SOLO : ?

- | | |
|---------|---------|
| A. YKPK | B. UKGR |
| C. UKRG | D. YKTK |

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



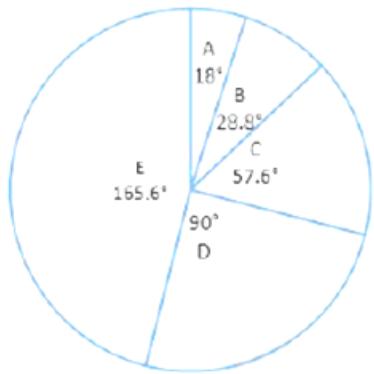
- A. 

B. 

C. 

D. 

TOTAL NUMBER OF UNITS SOLD = 22500



The number of units of product C sold by the company exceeds the total number of units of products A and B by x. The value of x lies between.

- C. $\frac{5}{6}$

D. $\frac{2}{3}$

58. The average of the two digit number 41, x 5, and 44 is 57. What is the average of $(x + 5)$ and $2x - 9$?
A. 10
B. 13
C. 9
D. 11

59. Some fruits are bought at 11 for Rs. 100 and twice the number at 8 Rs. 100. If all the fruits are sold at 9 for Rs. 100, then What is the profit or loss percentage?
A. Gain, 3%
B. Loss, 3%
C. Gain, $4\frac{1}{9}\%$
D. Loss, $2\frac{2}{9}\%$

60. The simple interest on a sum for 5 years at 8% p.a. is Rs. 3,960. What will be the simple interest on the same sum for $6\frac{2}{3}$ years at 12% p.a?
A. 6, 600
B. 5, 280
C. 7, 920
D. 8, 000

61. The value of $36 \div [24 + \{30 - (60 - 60 \div 4 \times 5 \text{ of } 2)\}]$ is :
A. $\frac{1}{4}$
B. $\frac{1}{2}$
C. $\frac{1}{3}$
D. $\frac{2}{3}$

62. In a class of 92 students, the ratio of the number of boys to that of girls is 12 : 11. The average score of girls, in a test, is $33\frac{1}{3}\%$ more than that of boys. If the average score of all students is 80, then what is the average score of girls?
A. 88
B. 84
C. 92
D. 96

63. The value of $\frac{6.25 + \frac{6}{7} \text{ of } 21-3}{\frac{3}{4} \text{ of } (15.8 - 3.4) + 5 \times 2.39}$ is:
A. 0
B. 1
C. $\frac{11}{5}$
D. $\frac{17}{5}$

64. Let x be the largest 4-digit number which is divisible by each of 16, 21, 24 and 28. The sum of the digits of x is:
A. 19
B. 21

- C. 24 D. 16

65. A train covers a distance of 108 km at a certain speed. If its speed is increased by 18 km/h, it would take 18 minutes less to cover the same distance. What is the original speed (in km/h) of the train?
A. 72 B. 80
C. 63 D. 54

66. What is the mean of the median and range of the data:
45, 40, 38, 60, 55, 36, 31, 52, 42, 44?
A. 34 B. 32
C. 35 D. 36

67. The market price of an article is Rs. 3,600. Two successive discounts of $x\%$ and 15% are offered on it during a sale. If the selling price of the article is Rs. 2,448, then the value of x is:
A. 25 B. 18
C. 20 D. 10

68. By selling an article for Rs. 270, a shopkeeper gains 20%. If he sells it for Rs. 210, what is his gain or loss percentage?
A. Loss $6\frac{2}{3}\%$ B. Gain, $7\frac{1}{7}\%$
C. Gain, $6\frac{2}{3}\%$ D. Loss, $7\frac{21}{37}\%$

69. A and B can complete a work in 12 days and 20 days, respectively. They work together for 4 days. C alone completes the remaining work in 14 days. B and C together can complete the same work in:
A. 16 days B. 12 days
C. 15 days D. 10 days

70. A person can row at 10 km/h in still water. The speed of the stream is $1\frac{1}{9}$ m/sec. The time (in hours) taken by him to row a distance of 72 km upstream is:
A. $5\frac{1}{7}$ B. $5\frac{2}{7}$
C. 10 D. 12

71. The average of x , y and z is 6 more than z . The average of x and y is 50. If u is 6 less than z , then what is the average of u and z ?
A. 43 B. 38
C. 40 D. 39

72. In a library, the ratio of the number of mathematics books to that of physics books, is the same as the ratio

of the number of physics books to that of chemistry books. If there are 144 mathematics books and 100 chemistry books, then the ratio of the total number of mathematics and physics books to the total number of chemistry and physics books is:

C. 58 kg

D. 48 kg

91. Which sector of the Indian economy was the second-largest recipient of Foreign direct investment in India during 2019-20?
- A. Computer software and hardware B. Automobile
C. Services D. Construction
92. Which of the following Articles of the Constitution of India states that the Parliament has exclusive powers to make laws with respect to any of the matters enumerated in the Union List?
- A. Article 287 B. Article 246
C. Article 362 D. Article 352
93. Which of the following parallels of latitude represent the Tropic of Capricorn?
- A. $23\frac{1}{2}^\circ$ in the Northern Hemisphere B. $66\frac{1}{2}^\circ$ in the Southern Hemisphere
C. $23\frac{1}{2}^\circ$ in the Southern Hemisphere D. $66\frac{1}{2}^\circ$ in the Northern Hemisphere
94. Who among the following was honoured with the 'Honorary Foreign Member Award 2019' by the American Historical Association?
- A. Nayanjot Lahiri B. Irfan Habib
C. Ramachandra Guha D. Bhairabi Prasad Sahu
95. In the context of Gupta administration, the term 'vithi' referred to a/an:
- A. elephantry unit B. administrative unit
C. personal guard of the king D. Soldier
96. Of the units mentioned in the options, which one is the largest as compared to the others?
- A. Hecto B. Deca
C. Tera D. Giga
97. Which of the following celestial bodies has a natural satellite named 'Charon'?
- A. Haumea B. Pluto
C. Mars D. Saturn
98. The _____ was nationalized in the year 1949
- A. Union Bank of India B. Reserve Bank of India
C. Central Bank of India D. Imperial Bank of India
99. Who among the following was the recipient of the Infosys Prize 2019 for Humanities?
- A. Kesavan Veluthat B. Manu V Devadevan
C. Y Subbarayalu D. Shireen Mirutoosvi

100. Who was the Indian Cabinet Minister of Corporate Affairs as of 31 July 2020?

- A. Pralhad Joshi
- B. Mahendra Nath Pandey
- C. Gajendra Singh Shekhawat
- D. Nirmala Sitharaman

Solutions

1. B

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

* “Hold something/someone back” is used prevent someone/something from moving forward or crossing something.

For example:

The police were unable to hold back the crowd.

* “Hold on to something/someone” is used to keep holding something/someone.

For example:

She held on to the back of the chair to stop herself from falling.

* In the given sentence, we need the sense of “continuous hold of claws over the piece of bread”. Thus, phrasal verb “held on” should be used in place of “hold back”.

Note: Tense of the sentence is not changed until some context, or any time word is there that necessitates such change in tense. In the given sentence, no such compulsion of change in tense is there. Thus, past tense is not changed while doing the correction in the sentence.

* Hence, “The crow held on” is the correct substitution.

Thus, the correct sentence will be:

The crow held on to the piece of bread with its claws.

2. B

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

* Enhanced = to increase or further improve the good quality of someone/something.

* Elaborate = very complicated and detailed; carefully prepared and organised

* Auspicious = showing signs that something is likely to be successful in the future.

* Oriental = a person from China, Japan or other countries in East Asia.

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

- * "Enhanced" is used in context of "improving something" Thus, option A is incorrect.
- * "Auspicious" is used in context of "signs of success". Thus, option C is incorrect.
- * "Oriental" is used in context of "person from east Asia". Thus, option D is incorrect.
- * "Elaborate" is used in context of "detailed". Here in the given sentence, it used to show that a detailed chart was prepared by Rohit on the advantages of afforestation.

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

The correct sentence will be: Rohit prepared an elaborate chart on the benefits of afforestation.

3. B

Sol. Clever: a person who is quick at learning and understanding things

Bookworm: a person who likes reading very much

Witty: clever and humorous

Intelligent: good at learning, understanding and thinking in a logical way.

Hence, option B is the correct answer.

4. C

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

* Underlined part needs correction in preposition.

* "On" as a preposition is used to show "in or into position covering, touching or forming part of a surface."

For example:

Put the book on the table.

* "At" as a preposition is used to show "say where something/someone is or where something happens."

For example:

We arrived late at the airport.

We will be at home in the evening.

- * In the underlined sentence, we need the sense of “location of meeting” which is reflected in the usage of preposition “at”. Thus, it is appropriate to use preposition “at” in place of preposition “on”.
- * Hence, “at the airport” is the correct substitution.

Thus, the correct sentence will be: The team members will meet at the airport at 7 a.m. tomorrow.

Hence, option C is the correct answer.

5. C

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

- * When two actions of the past are mentioned then the action that happened first is written in past perfect form and the one that happened later is written in simple past tense.

For example:

After they had gone, there was a complete silence in the room.

- * In the given sentence, the past perfect form (had + third form of verb) is written in wrong manner. Second form of verb “ate” is written after “had”, which is wrong. Thus, third form of verb “eaten” should be used.

- * Hence, “After we had eaten” is the correct substitution.

Thus, the correct sentence will be:

After we had eaten a hearty meal, we went to sleep.

6. C

Sol. The idiom “Break new ground” means to make new discovery or do something that has not been done before

Example: His technical designs have broken new ground in the field of electronics.

Hence, option C is the correct answer.

7. D

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

- * Because = (conjunction) for the reason that
- * Unless = (conjunction) used to say that something can only happen or be true in a particular situation.
- * So that = (conjunction) in such a way that
- * Lest = (conjunction) in order to prevent something from happening.

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

- * "Because" is used in context of "mentioning the reason" Thus, option A is incorrect.
- * "Unless" is used in context of "happening of something based on condition". Thus, option B is incorrect.
- * "So that" is used in context of "in such a way that". Thus, option C is incorrect.
- * "Lest" is used in context of "to prevent something from happening". Here in the given sentence, it used to show that "I" should be helped in order to prevent "I" from failing.

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

The correct sentence will be: He helped me with the lessons lest I should fail.

8. A

Sol. Option A has incorrectly spelt word.

"Pleasant" is the correct spelling of the incorrect word "Pleasent". It means fun, attractive, or giving pleasure.

The meaning of other words are:

Persistent: determined to do something despite difficulties.

Accountant: a person whose job is to keep or check financial accounts.

Reluctant: hesitating before doing something because you don't want to do it or you are not sure that it is the right thing to do.

9. A

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

* "At a time" means separately or in groups of two, three, etc. on each occasion.

For example:

Employees had to go and see the manager one at a time.

He believes in doing one project at a time.

* In the given sentence, "at a time" should be used to show doing one thing at one time.

* Hence, "at a time" is the correct substitution.

Thus, the correct sentence will be: We should focus on only one thing at a time.

10. B

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

* Underlined part needs correction in determiner.

* "This", "These", "That" and "Those" are determiners used when something has already been mentioned or is already known about.

* But "This" and "These" as a determiner are used to refer to a person or thing that is near the speaker or as near to the speaker as another. "This" is used for singular entities, and "These" is used for plural entities.

* Whereas "That" and "Those" as a determiner are used to refer to a person or thing that is not near the speaker or as near to the speaker as another. "That" is used for singular entities and "Those" is used for plural entities.

* For example:

There is a court case resulting from this incident.

Movies are all about making money these days.

Please have a look at that man over there.

I have nothing but admiration for the way she tackled those bullies.

* In the underlined sentence, it is clear that speaker is talking about something which is known and is currently being experienced by us. The current prevalence of “difficult times” justifies the context of “nearness” to the speaker. Thus, it is appropriate to use determiner “these” in place of determiner “that”.

* Hence, “these” is the correct substitution.

Thus, the correct sentence will be:

Please don't create panic among people during these difficult times.

Hence, option B is the correct answer.

11. D

Sol. Option D has incorrectly spelt word.

“Competitor” is the correct spelling of the incorrect word “Compititor”. It means a person who takes part in a competition.

The meaning of other words are:

Instructor: a person whose job is to teach someone a practical skill or sport.

Contractor: a person or company that has a contract to do work.

Prosecutor: a public official who charges someone officially with a crime and prosecutes them in court.

12. C

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

- * Strict = something that must be obeyed exactly OR very exact and clearly defined
- * Stern = serious and often showing that one does not approve of someone/something
- * Severe = extremely bad or serious
- * Sour = having a taste like that of a lemon

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

- * "Strict" is used in context of "obeying exactly" Thus, option A is incorrect.
- * "Stern" is used in context of "disapproving something". Thus, option B is incorrect.
- * "Sour" is used in context of "taste like lemon". Thus, option D is incorrect.
- * "Severe" is used in context of "extremely bad". Here in the given sentence, it used to show that extremely bad or serious pain was there in the leg after the trek.

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

The correct sentence will be: After the trek I felt a severe pain in my leg.

13. A

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

Potent = having a strong effect on one's body or mind OR being powerful.

E.g.: The opposition parties put forward a potent argument in the parliament.

Powerful = being able to control and influence people and events.

E.g.: Today, India has become increasingly powerful force on the world stage.

Beautiful = having beauty; giving pleasure to the sense or to the mind.

Graceful = moving in an attractive way that shows control.

Wonderful = very good, pleasant.

Hence, option A is the correct answer.

14. C

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

Complex = complicated.

E.g.: We are living in an increasingly complex world.

Knotty = complicated and difficult to solve

Motley = consisting of many different types of people or things that do not seem to belong together.

Simple = not complicated; easy to understand or do

E.g.: This game is supposed to be simple for anyone to play.

Mixed = consisting of different qualities or elements.

Hence, option C is the correct answer.

15. A

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

* Among = being included or happening in groups of things/people

* Between = being included or happening in two persons

* Along = from one end to or towards the other end

* Across = from one side to the other side of something.

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

- * "Between" as a preposition is used in context of "two persons" Thus, option B is incorrect.
- * "Along" as a preposition is used in context of "towards the other end". Thus, option C is incorrect.
- * "Across" as a preposition is used in context of "one side to the other side". Thus, option D is incorrect.
- * "Among" is used in context of "more than two persons". Here in the given sentence, it is used to show the context of "Rohan being popular" in relation to "his classmates" (which is more than two persons).

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

The correct sentence will be:

Rohan is quite popular among his classmates.

16. B

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

Valiant = very brave or determined.

E.g.: He made a valiant attempt not laugh at her silly activities.

Worthy = having the qualities that deserve one's respect or attention.

Cowardly = not brave; not having the courage to do things that other people do not think are especially difficult.

E.g.: The goons took out a cowardly attack on a defenceless man.

Gallant = brave

Barren = willing to do things that are difficult, dangerous, painful; not afraid.

Hence, option B is the correct answer.

17. A

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

Limpid = clear or transparent

E.g.: He gave her a look of limpid honesty.

Lucid = clearly expressed; easy to understand

E.g.: Ramesh gave a lucid account of the events that happened in last financial year.

Blunt = without a sharp edge or point.

Obscure = not well known

Subtle = not very obvious or easy to notice.

Hence, option A is the correct answer.

18. B

Sol. Obviate: to remove a problem or the need for something

Adulterate: to make food or drink less pure by adding another substance to it.

Adjudicate: to make an official decision about who is right between two groups or organisations.

Obliterate: to remove all signs of something.

Hence, option B is the correct answer.

19. B

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

* Underlined part needs correction in verb.

* Verb of perception takes “Object + Bare infinitive”. Some verbs of perception are: see, watch, hear, notice.

* For example:

Someone saw the men leave the building.

I heard someone knock on the door.

* In the underlined sentence, “watched” is the verb of perception and “workman” is the object of this verb.

* So, we have to use bare infinitive form of verb after “workman” i.e. “remove”. Thus, “remove” should be used in place of “to be removing”.

* Hence, “remove” is the correct substitution.

Thus, the correct sentence will be:

We watched the workman remove the damaged tiles.

Hence, option B is the correct answer.

20. C

Sol. The idiom “Sell like hot cakes” means to be bought quickly or in great numbers.

Example: The new video game “Propnight” is selling like hot cakes in the gaming arena.

Hence, option C is the correct answer.

21. B

Sol. The given passage is about “A blissful time in Darjeeling”.

“Whether” as a conjunction is used to show “up to the point in time or the event mentioned”. Thus, option A is wrong.

“Before” as a conjunction is used to show “earlier than the time when something is happening”. Thus, option C is wrong.

“Until” as a conjunction is used to show “up to the point in time or the event mentioned”. Thus, option D is wrong.

“Although” as a conjunction is used to show “for introducing a statement that makes the main statement in a sentence seem surprising”. Here it is used to show that “we” are enjoying their time in Darjeeling though there is a record fall in temperature.

Hence, option B is the correct answer.

22. C

Sol. The given passage is about “A blissful time in Darjeeling”.

“A” as an indefinite article is used before the countable nouns (no vowel sounds) that have not been mentioned before. Thus, option A is wrong.

“Such” as a determiner is used to emphasize the great degree of something. Thus, option B is wrong.

“So” as an adverb is used to show to such a great degree. Thus, option D is wrong.

“An” as a definite article is used before the countable nouns (having vowel sounds) that have not been mentioned before. Here it is used before noun “low” but in accordance with adjective “all” that qualifies the noun “low”. Adjective has a vowel sound.

Note: If a noun is preceded by an adjective then article a/an is decided according to the pronunciation of adjective.

Hence, option C is the correct answer.

23. C

Sol. The given passage is about “A blissful time in Darjeeling”.

“Acceptable” means agreed or approved of by most people in a society. Thus, option A is wrong.

“Capable” means having the ability necessary for doing something. Thus, option B is wrong.

“Satisfactory” means good enough for a particular purpose. Thus, option D is wrong.

“Adequate” means enough in quantity, or good enough in quality for a particular purpose or need. In the given sentence, enough quantity of “warm clothing” is mentioned to counter the low temperature in Darjeeling.

Hence, option C is the correct answer.

24. A

Sol. The given passage is about “A blissful time in Darjeeling”.

“Failed” means to not be successful in achieving something. Thus, option B is wrong.

“Foiled” means to stop something from happening. Thus, option C is wrong.

“Finished” means to stop doing something because it is complete. Thus, option D is wrong.

“Forgot” means to not remember to do something. In the given sentence, “we” did not remember to carry umbrella during their visit to Darjeeling.

Hence, option A is the correct answer.

25. A

Sol. The given passage is about “A blissful time in Darjeeling”.

“Slashing” means to make a long cut with a sharp object. Thus, option B is wrong.

“Drenching” means to make someone/something completely wet. Thus, option C is wrong.

“Showering” means to wash yourself under a shower. Thus, option D is wrong.

“Pouring” means (in context of rain) rain is falling heavily. In the given sentence, it shows that the rain is falling heavily and continuously since “we” visited Darjeeling.

Hence, option A is the correct answer.

26. D

Sol. The arrangements of students as per the question is

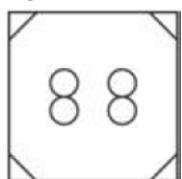
LQOPMN

Here O is to the immediate right of Q.

Hence, option D is the correct answer.

27. A

Sol. When paper is folded as per the question and then unfolded as per the instructions then the figure formed is



Hence, option A is the correct answer.

28. C

Sol. This can be solve by hit and trial method, so put the mathematical signs shown in option B into the given equation and replace * sign

$$11 * 4 * 3 * 3 * 7 * 8$$

Apply BODMAS

$$11+4\times3\div3-7=8$$

$$11+4\times1-7=8$$

$$11+4-7=8$$

$$15-7=8$$

$$8=8$$

Hence, option C is the correct answer.

29. C

Sol. Here the pattern followed is

$$\text{Third term} = (\text{Second term} - \text{First term}) \div 2$$

$$39-17=22 \text{ And } 22\div2=11$$

Similarly

$$44-18=26 \text{ And } 26\div2=13$$

Hence, option C is the correct answer.

30. B

Sol. Here the pattern follows is

Black dot is moving two place anticlockwise

= is moving one place clockwise

Multiplication symbol is moving one place anticlockwise

And circle is moving two place clockwise

Here in first, second, third and fifth the pattern follows but in figure IV it does not follow.

Hence, option B is the correct answer.

31. B

Sol. Nanda Devi, Kamet, Saltoro Kangri, Kanchenjunga

III I IV II

Hence, option B is the correct answer.

32. B

Sol. 893='Shahid likes cakes'

137 = 'cakes are delicious'

274 = 'we are girls'

7= are

3= cakes

1= delicious

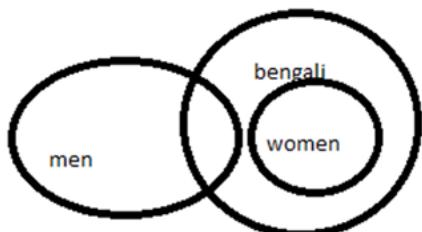
Girls code= either 2 or 4

So, as per the option available, 2 is the code of girls

Hence, option B is the correct answer.

33. B

Sol. The pictorial representation as the statement is given below:



Conclusions:

I. No Bengali is a man- false, as there is relationship between men and Bengali

II. Some women are men- Not a definite case, hence false.

III. All women are men- Not a definite case, hence false.

IV. No woman is a man- Not a definite case, hence false.

But, II, III and IV make a complementary set,

So, either conclusion II or III or IV follows.

Hence, option B is the correct answer.

34. A

Sol. Potato : Stem :: Chickpea : Seed

Potato is a modified stem called tuber similarly Chickpea is a seed.

Hence, option A is the correct answer.

35. B

Sol. $274 = \text{you are fool}$

$137 = \text{Rohan is fool}$

$893 = \text{Riya likes Rohan}$

$7 = \text{fool}$

$3 = \text{rohan}$

So code of IS = 1

Hence, option B is the correct answer.

36. D

Sol. Statements:

1. Some boys are in class II.

2. Shekhar is not in class II.

Conclusions:

I. Shekhar is not a boy = Not a definite case, hence false.

II. No class II student is a boy= false as it is stated in statement I that some boys are in class II.

III. Shekhar is a boy = Not a definite case, hence false.

But, I and III form a complementary pair,

So, either conclusion I or III follows.

Hence, option D is the correct answer.

37. B

Sol.



Hence option B is the correct answer.

38. D

Sol. $216 = (7-1)^3 = 6^3 = 216$

$512 = (9-1) = 8^3 = 512$

$1331 = (12-1)^3 = 11^3 = 1331$

$(13-1)^3 = 12^3 = 1728$ not equal to 1724

Hence, option D is the correct answer.

39. B

Sol. This type of question is solved by hit and trial method, so replace \div and $-$

$$17 \times 3 \div 6 - 2 + 7 = 55$$

Correct equation=

$$17 \times 3 - 6 \div 2 + 7 = 55$$

$$51 - 3 + 7 = 55$$

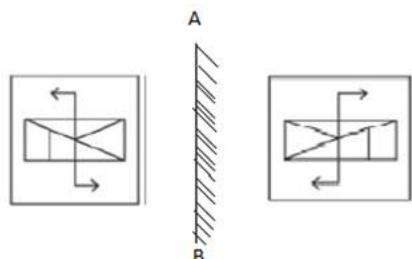
$$48 + 7 = 55$$

$$55 = 55$$

Hence, option B is the correct answer.

40. A

Sol. The mirror image of the given question is given below.



Hence, option A is the correct answer.

41. A

Sol. 15, 19, 28, 44, **69**, 105

$$\begin{array}{cccccc} +4 & +9 & +16 & +25 & +36 \\ 2^2 & 3^2 & 4^2 & 5^2 & 6^2 \end{array}$$

Hence, option A is the correct answer.

42. B

Sol.

H	+3	K		C	+3	F
O	+6	U		O	+6	U
O	+9	X		K	+9	T
K	+12	W		E	+12	Q

Hence, option B is the correct answer.

43. B

Sol. cknd/cknd/cknd/c

The pattern cknd is repeated.

Hence, option B is the correct answer.

44. D

Sol. The logic followed here is that the letters are opposite to each other –

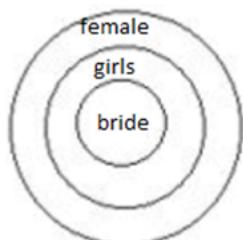
W	↔	D		R	↔	I
I	↔	R		O	↔	L
C	↔	X		P	↔	K
E	↔	V		E	↔	V

A	B	C	D	E	F	G	H	I	J	K	L	M
Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Hence, option D is the correct answer.

45. B

Sol.



All bride are girls and all girls are female.

Hence, option B is the correct answer.

46. A

Sol. 39, 46, 60, 82, 109, 144

$$39+7=46$$

$$46+14=60$$

$$60+21=81 \text{ so here } 82 \text{ is wrong.}$$

$$81+28=109$$

$$109+35=144$$

Hence, option A is the correct answer.

47. C

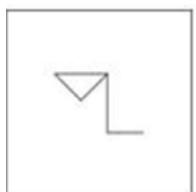
Sol. The pattern follow here is explained below:

H	+2	J		S	+2	U
O	-4	K		P	-4	K
S	+6	Y		L	+6	R
T	-8	L		O	-8	G

Hence, option C is the correct answer.

48. B

Sol. Figure given in option B is not embedded.



Hence option B is the correct answer.

49. B

Sol. The arrangements of house as per the questions is
OQSPRMN

House R is second to the right of S.

Hence, option B is the correct answer.

50. D

Sol. Medicines are used to treat Human body similarly in plants Pesticides are used in Plants.
Human body : Medicines :: Plants : Pesticides

51. B

Sol. Let income of Kamal = Rs. 100

Kamal saves $x\%$ of her monthly income.

$$\text{Saving of Kamal} = \frac{100 \times \frac{x}{100}}{100} = \text{Rs. } x$$

Expenditure of Kamal = Rs. 100 – Rs. x

When her monthly expenditure increases by 20% and the monthly income increases by 26%, then her monthly savings increase by 60%.

According to question:

$$\bullet 100 \times \frac{(100+26)}{100} = x \times \frac{(100+60)}{100} + (100-x) \times \frac{(100+20)}{100}$$

$$\bullet 126 = x \times \frac{(160)}{100} + (100-x) \times \frac{(120)}{100}$$

$$\bullet 126 = \frac{8}{5}x + 120 - \frac{6}{5}x$$

$$\bullet \frac{2}{5}x = 6$$

$$\bullet x = \frac{30}{2} = 15$$

52. D

Sol. Number of units of product C = $\frac{57.6^\circ}{360^\circ} \times 22500 = 3600$

Total number of units of products A and B = $\frac{(18+28.8)^\circ}{360^\circ} \times 22500 = 2925$

The number of units of product C sold by the company exceeds the total number of units of products A and B by x.

$$\bullet x = 3600 - 2925 = 675$$

Hence, Value of x lies between 670 and 680.

53. C

Sol. Total number of units of products B and D =

$$\frac{(28.8+90)^\circ}{360^\circ} \times 22500 = \frac{(118.8)^\circ}{360^\circ} \times 22500 = 7425$$

54. C

Sol. Total number of units of the products sold in 2020 is 20% more than that in 2019.

Total number of units of the products sold in 2019 = 22500

$$\text{Total number of units of the products sold in 2020} = 22500 \times \frac{120}{100} = \text{Rs. 27000}$$

Sales distribution of all the products in 2020 remain the same as of 2019.

$$\text{Number of units of product E sold in 2020} = \frac{(165.6)^\circ}{360^\circ} \times 27000 = 12420$$

$$\text{Number of units of product D sold in 2020} = \frac{(90)^\circ}{360^\circ} \times 27000 = 6750$$

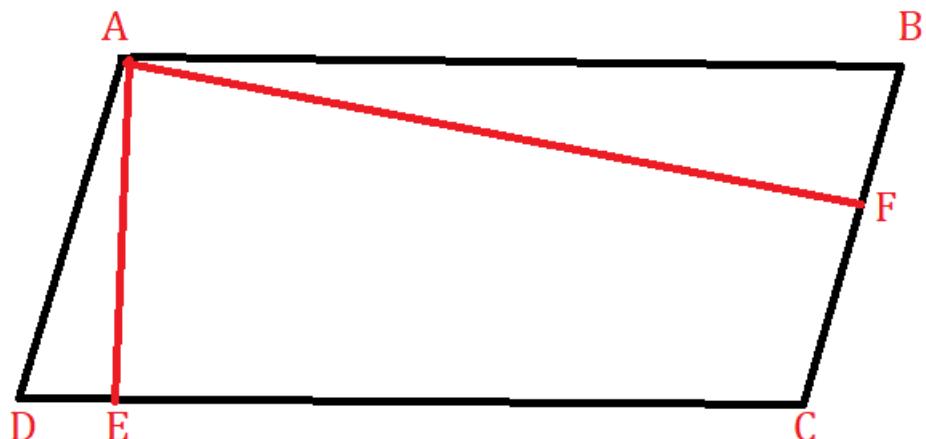
$$\text{Required difference} = 12420 - 6750 = 5670$$

55. B

Sol. The area of a parallelogram ABCD is 300 Cm^2 .

The distance between AB and CD = AE = 20 cm.

Distance between BC and AD = AF = 30 cm.



$$\text{Area of a parallelogram } ABCD = BC \times AF = AE \times CD$$

$$\text{Now, } AE \times CD = 300$$

$$\bullet 20 \times CD = 300$$

$$\bullet CD = 15 \text{ cm}$$

Now, $BC \times AF = 300$

- $30 \times BC = 300$
- $BC = 10 \text{ cm}$

Now, Perimeter (in cm) of the parallelogram = $2(15+10) = 50 \text{ cm}$

56. B

Sol. Radius of solid metallic sphere = 8.4 cm

Radius (in cm) of the base of the cone = $r \text{ cm}$

Height of cone = 18.9 cm

Solid metallic sphere of radius 8.4 cm is melted and recast into a cone of height 18.9 cm.

- Volume of solid metallic sphere = Volume of cone

- $\frac{4}{3}\pi \times (8.4)^3 = \frac{1}{3}\pi \times (r)^2 \times (18.9)$

- $4 \times (8.4)^3 = (r)^2 \times (18.9)$

- $r^2 = \frac{2370.816}{18.9} = 125.44$

- $r = \sqrt{125.44} = 11.2 \text{ cm}$

Hence, Radius of the base of the cone = 11.2 cm

57. B

Sol. Let efficiency of A = $7x$

Efficiency of B = $6x$

Working together, they can complete the same work in 21 days.

$$\text{Total work} = (6x + 7x) \times 21 = 273x \text{ unit}$$

$$\text{Work finished by B in 26 days} = (6x) \times 26 = 156x \text{ unit}$$

$$\text{Hence, Part of the work that is completed by B alone in 26 days} = \frac{156x}{273x} = \frac{4}{7}$$

58. A

Sol. Average of the two digit number 41, $x5$, and 44 is 57.

$$\text{Average} = \frac{\text{Sum of observations}}{\text{Total number of observation}}$$

$$\bullet 57 = \frac{41 + x5 + 5x + 44}{4}$$

$$\bullet x5 + 5x = 57 \times 4 - 41 - 44$$

$$\bullet x5 + 5x = 228 - 85 = 143$$

We know that $85 + 58 = 143$

Hence, $x = 8$

$$\text{Average of } (x + 5) \text{ and } 2x - 9 = \frac{x+5+2x-9}{2} = \frac{3(x)-4}{2} = \frac{3(8)-4}{2} = 10$$

59. D

Sol. Some fruits are bought at 11 for Rs. 100 and twice the number at 8 Rs. 100.

Let number of fruits that are brought @ 11 for Rs. 100 = LCM (8,11) = 88

$$\text{Cost price of these 88 fruits} = \frac{100}{11} \times 88 = \text{Rs.}88$$

Let number of fruits that are brought @ 8 Rs. 100 = $88 \times 2 = 176$

$$\text{Cost price of these 176 fruits} = \frac{100}{8} \times 176 = \text{Rs.}2200$$

Total number of fruits = $176 + 88 = 264$

Cost price of all fruits = Rs. 800 + Rs. 2200 = Rs. 3000

All the fruits are sold at 9 for Rs. 100

$$\text{Selling price of all fruits} = \frac{100}{9} \times 264 = \text{Rs.} \frac{8800}{3}$$

$$\text{Loss \%} = \frac{\frac{3000 - \frac{8800}{3}}{3} \times 100}{3000} = \frac{9000 - 8800}{9000} \times 100 = \frac{20}{9}\% = 2\frac{2}{9}\%$$

60. C

Sol. The simple interest on a sum for 5 years at 8% p.a. is Rs. 3,960.

Let sum = Rs. P

$$\text{Simple Interest} = \frac{\text{Principal} \times \text{Rate} \times \text{time}}{100}$$

$$\bullet \quad 3960 = \frac{P \times 8 \times 5}{100}$$

$$\bullet \quad P = \frac{396000}{40} = \text{Rs.} 9900$$

Hence, Sum = Rs. 9900

$$\begin{aligned} & \text{Now, Simple interest on the same sum for } 6\frac{2}{3} \text{ years at 12% p.a.} = \frac{9900 \times 12 \times \frac{20}{3}}{100} \\ & = \text{Rs.} 7920 \end{aligned}$$

61. A

Sol. $36 \div [24 + \{30 - (60 - 60 \div 4 \times 5 \text{ of } 2)\}]$

Using BODMAS :

- $36 \div [24 + \{30 - (60 - 60 \div 4 \times 10)\}]$
- $36 \div [24 + \{30 - (60 - 15 \times 10)\}]$
- $36 \div [24 + \{30 - (-90)\}]$

- $36 \div [24+120]$
- $36 \div [144]$
- $\frac{1}{4}$

62. C

Sol. In a class of 92 students, the ratio of the number of boys to that of girls is 12 : 11.

Let number of boys = $12x$

number of girls = $11x$

- $12x + 11x = 92$
- $23x = 92$
- $x = 4$

Hence, number of boys = 48

number of girls = 44

The average score of girls, in a test, is $33\frac{1}{3}\%$ more than that of boys.

- $33\frac{1}{3}\% = \frac{1}{3}$

Let average score of boys = $3x$

Average score of girls = $\frac{3x + 3x \times \frac{1}{3}}{3} = 4x$

Average score of all students is 80

According to question:

$$\bullet \frac{48 \times 3x + 44 \times 4x}{48 + 44} = 80$$

$$\bullet \frac{144x + 176x}{92} = 80$$

$$\bullet 320x = 7360$$

$$\bullet x = 23$$

Average score of girls = $23 \times 4 = 92$

63. B

Sol.

$$\frac{6.25 + \frac{6}{7} \text{ of } 21 - 3}{\frac{3}{4} \text{ of } (15.8 - 3.4) + 5 \times 2.39}$$

$$\bullet \frac{6.25 + 18 - 3}{\frac{3}{4} \text{ of } (12.4) + 11.95}$$

$$\bullet \frac{6.25+15}{9.3+11.95} = \frac{21.25}{21.25} = 1$$

64. C

Sol. Least number which is exactly divisible by 16, 21, 24 and 28 = LCM (16,21,24,28)

$$16 = 2 \times 2 \times 2 \times 2$$

$$21 = 3 \times 7$$

$$24 = 2 \times 2 \times 2 \times 3$$

$$28 = 2 \times 2 \times 7$$

$$\text{LCM (16,21,24,28)} = 2 \times 2 \times 2 \times 2 \times 3 \times 7 = 336$$

Largest 4 digit number = 9999

When we divide 9999 by 336, 255 is obtained as remainder.

x be the largest 4-digit number which is divisible by each of 16, 21, 24 and 28.

Hence, $x = 9999 - 255 = 9744$

Sum of digits of 9744 = $9 + 7 + 4 + 4 = 24$

65. A

Sol. Distance covered by train = 108 km

Let train's original speed = x km/hr

If train's speed is increased by 18 km/ h, it would take 18 minutes less to cover the same distance.

$$\bullet \frac{108}{x} - \frac{108}{x+18} = \frac{18}{60}$$

$$\bullet (108)(x+18) - 108x = \frac{18}{60}(x)(x+18)$$

$$\bullet 108x + 1944 - 108x = \frac{3}{10}(x^2 + 18x)$$

$$\bullet \frac{19440}{3} = x^2 + 18x$$

$$\bullet x^2 + 18x - 6480 = 0$$

$$\bullet x^2 + 90x - 72x - 6480 = 0$$

$$\bullet x(x+90) - 72(x+90) = 0$$

$$\bullet (x+90)(x-72) = 0$$

$$\bullet x = -90 \text{ and } x = 72$$

Hence, original speed (in km/h) of the train = 72 km/hr

66. D

Sol. Consider : 45, 40, 38, 60, 55, 36, 31, 52, 42, 44

Ascending order : 31 , 36,38,40,42,44,45,52,55,60

Number of terms = 10

If number of terms are even then Median =

$$\frac{\left(\frac{n}{2}\right)^{th} + \left(\frac{n}{2}+1\right)^{th}}{2} = \frac{\left(\frac{10}{2}\right)^{th} + \left(\frac{10}{2}+1\right)^{th}}{2} = \frac{5^{th} + 6^{th}}{2} = \frac{42 + 44}{2} = 43$$

Range = 60 – 31 = 29

$$\text{Mean of the median and range of the data} = \frac{43 + 29}{2} = \frac{72}{2} = 36$$

67. C

Sol. Market price of an article = Rs. 3,600

Selling price of the article = Rs. 2,448

Two successive discounts of $x\%$ and 15% are offered on it during a sale.

$$\bullet 3600 \times \frac{(100-x)}{100} \times \frac{(100-15)}{100} = 2448$$

$$\bullet (100-x) = \frac{244800}{36 \times 85}$$

$$\bullet (100-x) = 80$$

$$\bullet x = 100 - 80 = 20$$

68. A

Sol. Selling price of an article = Rs. 270

Gain% = 20%

$$\text{Cost price of article} = \frac{270 \times (100)}{120} = \text{Rs.} 225$$

But if selling price is Rs. 210

Then Loss = Rs. 225 – Rs. 210 = Rs. 15

$$\text{Loss \%} = \frac{15}{225} \times 100 = 6\frac{2}{3}\%$$

69. B

Sol. Number of days taken by A to complete the work = 12 days

Number of days taken by B to complete the work= 20 days

Let total work = LCM (12,20) = 60 unit

$$\text{Efficiency of A} = \frac{60}{12} = 5 \text{ unit/day}$$

$$\text{Efficiency of B} = \frac{60}{20} = 3 \text{ unit/day}$$

Efficiency of A and B together = $5 + 3 = 8$ unit/day

Both work together for 4 days only.

Work finished by them in 4 days = $4 \times 8 = 32$ unit

Remaining work = 60 unit – 32 unit = 28 unit

C completed the remaining work in 14 days.

$$\text{Efficiency of C} = \frac{28}{14} = 2 \text{ unit/day}$$

Efficiency of B and C together = $3 + 2 = 5$ unit/day

Number of days taken by B and C to complete the whole work = $\frac{60}{5} = 12$ days

70. D

Sol. A person can row at 10 km/h in still water.

$$\text{Speed of the stream} = 1\frac{1}{9} \text{ m/sec} = \frac{10}{9} \text{ m/sec} = \frac{10}{9} \times \frac{18}{5} \text{ km/hr} = 4 \text{ km/hr}$$

Speed of person during upstream = $10 - 4 = 6$ km/hr

Time (in hours) taken by him to row a distance of 72 km upstream = $\frac{72}{6} = 12$ km/hr

71. B

Sol. Average of x, y and z is 6 more than z.

The average of x and y is 50.

- $\frac{x+y}{2} = 50$
 - $x+y=100 \quad \dots \dots \dots (2)$

u is 6 less than z.

- $$\bullet \quad u = z - 6 \quad \dots \dots \dots \quad (3)$$

Put the value of (2) in (1)

- $100 + z = 3z + 18$
 - $2z = 82$
 - $z \equiv 41$

From (3)

- $$\bullet u = 41 - 6 = 35$$

$$\text{Average of } u \text{ and } z = \frac{41+35}{2} = \frac{76}{2} = 38$$

72. B

Sol. There are 144 mathematics books and 100 chemistry books in library.

Let number of physics books = x

Ratio of the number of mathematics books to that of physics books, is the same as the ratio of the number of physics books to that of chemistry books.

$$\bullet \frac{144}{x} = \frac{x}{100}$$

$$\bullet x^2 = 14400$$

$$\bullet x = \sqrt{14400} = 120$$

Hence, number of physics books = 120

Ratio of the total number of mathematics and physics books to the total number of chemistry

$$\text{and physics books} = \frac{144+120}{120+100} = \frac{264}{220} = \frac{6}{5}$$

73. A

Sol. When x is subtracted from each of 55, 50, 23 and 22, the numbers so obtained in this order, are in proportion.

- $(55-x)$, $(50-x)$, $(23-x)$ and $(22-x)$ are in proportion.

- $(55-x)(22-x) = (50-x)(23-x)$
- $1210 - 55x - 22x + x^2 = 1150 - 50x - 23x + x^2$
- $-77x + 1210 = -73x + 1150$
- $4x = 60$
- $x = 15$

Let Fourth proportional of 3, 7 and 15 is y

- $3 : 7 :: 15 : y$
- $3y = 105$
- $y = 35$

Hence, fourth proportional of 3, 7 and 15 is 35.

74. C

Sol. A sum amounts of Rs. 11,616 in 2 years and to Rs. 12,777.60 in 3 years, when the interest is compounded annually.

Principal for 3rd year =Rs. 11616

Amount after 3rd year = Rs. 12177.60

$$\text{Amount} = P \left(1 + \frac{\text{Rate}}{100}\right)^{\text{time}}$$

- $12777.60 = 11616 \left(1 + \frac{R}{100}\right)$

- $1 + \frac{R}{100} = \frac{12777.60}{11616} = \frac{11}{10}$

- $\frac{R}{100} = \frac{11}{10} - 1 = \frac{1}{10}$

- $R = 10\%$

Hence, Rate of interest = 10%

Sum amounts of Rs. 11,616 in 2 years.

Let sum = Rs. P

- $11616 = P \left(1 + \frac{10}{100}\right)^2$

- $11616 = P \left(\frac{11}{10}\right)^2$

- $P = 11616 \times \frac{10}{11} \times \frac{10}{11} = 9600$

Hence, Sum = Rs. 9600

75. C

Sol. $\frac{4}{9} \div \left(\frac{3}{5} - \frac{1}{2} \right) \times \frac{9}{25} - \left(\frac{2}{3} \div \frac{3}{4} \text{ of } \frac{5}{3} \right) + \left(5\frac{1}{4} \div \frac{3}{7} \text{ of } \frac{1}{4} \times \frac{3}{35} \right)$
 $\bullet \frac{4}{9} \div \left(\frac{3}{5} - \frac{1}{2} \right) \times \frac{9}{25} - \left(\frac{2}{3} \div \frac{3}{4} \text{ of } \frac{5}{3} \right) + \left(\frac{21}{4} \div \frac{3}{7} \text{ of } \frac{1}{4} \times \frac{3}{35} \right)$

Using BODMAS:

$$\bullet \frac{4}{9} \div \left(\frac{3}{5} - \frac{1}{2} \right) \times \frac{9}{25} - \left(\frac{2}{3} \div \frac{15}{12} \right) + \left(\frac{21}{4} \div \frac{3}{28} \times \frac{3}{35} \right)$$

$$\bullet \frac{4}{9} \div \left(\frac{1}{10} \right) \times \frac{9}{25} - \left(\frac{24}{45} \right) + \left(49 \times \frac{3}{35} \right)$$

$$\bullet \frac{4}{9} \div \left(\frac{1}{10} \right) \times \frac{9}{25} - \left(\frac{24}{45} \right) + \left(\frac{21}{5} \right)$$

$$\bullet \frac{4}{9} \times 10 \times \frac{9}{25} - \frac{24}{45} + \frac{21}{5}$$

$$\bullet \frac{8}{5} - \frac{8}{15} + \frac{21}{5}$$

$$\bullet \frac{24 - 8 + 63}{15} = \frac{79}{15} = 5\frac{4}{15}$$

76. A

- Sol. • Recitation is the meaning of the word 'Sama' in the context of Sufi traditions.
• It often includes singing, playing instruments, dancing, recitation of poetry and prayers, wearing symbolic attire and other rituals.
• Sufism is a mystic body of religious practice within Islam characterized by a focus on Islamic spirituality, ritualism, asceticism and esotericism.
• It aims to adhere to the direct perception of mankind to God without any mediator.
• It has been variously defined as Islamic mysticism.
• A disciple is an active follower of a leader or movement, religious or otherwise.

77. A

- Sol. • Kafuli is the name of cuisine in the context of the culture of Uttarakhand.

- It is a thick gravy preparation made from green leafy vegetables.
- It is the ideal dish for people who are diet conscious as it is tasty as well as nutritious at the same time.
- It is a popular and most loved Pahari dish which is savoured by people of all age groups.
- Uttarakhand is known for the composed Himalayas, holy rivers, spiritual centres and spellbinding landscapes.
- It is one of the best trekking destinations in India.

78. D

Sol. • Surya Sen was popularly known as 'Master Da'.

- He was influential in the Indian independence movement against British rule in India.
- He is best known for leading the 1930 Chittagong armoury raid.
- Batukeshwar Dutt was also a member of the Hindustan Socialist Republican Association.
- Ram Prasad Bismil was a freedom fighter who played an active role in India's freedom struggle.
- Ashfaqulla Khan was co-founder of the Hindustan Socialist Republican Association.

79. D

Sol. • The number of Asiatic lions in the Gir forest region of Gujarat has risen to 674 in June 2020 as per the Lion Census conducted every five years.

- The Asiatic lion is a *Panthera leo* population surviving today only in India.
- It was also known as the Indian lion and the Persian lion.
- Its range is restricted to Gir National Park and the surrounding areas in the Indian state of Gujarat.
- The Asiatic lion's habitat is dry scrub land and open deciduous forest.
- Gujarat is the fifth-largest Indian state by area and the ninth-largest state by population.

80. B

- Sol. • **Sushil Kumar** won a silver medal at the 2012 London Olympics.
• He carried the Indian flag at the opening ceremony of the 2012 London Olympics.
• The 2012 Summer Olympics were an international multi-sport event held from 27 July to 12 August 2012 in London, United Kingdom.
• She is the first Indian badminton player to have won an Olympic medal.
• **Gagan Narang** won the bronze medal in the Men's 10 m Air Rifle Event at the 2012 Summer Olympics in London.
• **MC Mary Kom** is the only woman to win the World Amateur Boxing Championship six times.

81. C

- Sol. • The book titled 'My Journey: Transforming Dreams into Actions' is an autobiography of APJ Abdul Kalam.
• It has been a tale of extraordinary determination, courage, perseverance and the desire to excel.
• APJ Abdul Kalam was an Indian aerospace scientist and he served as the 11th president of India from 2002 to 2007.
• He served as the 7th Deputy Prime Minister of India from 2002 to 2004.
• Atal Bihari Vajpayee was the first Indian prime minister not of the Indian National Congress to serve a full term in office.
• Lal Krishna Advani is one of the co-founders and a senior leader of the Bharatiya Janata Party.

82. C

- Sol. • Gujarat is the buffalo breed named 'Banni' mainly reared.
• Banni buffalo is also known as Kutchi or Kundi.
• It is usually bred and preserved by a local community found in Kutch.

- It is known for its superior germplasm and its milk productivity.
- It is well-adapted to survive extreme weather conditions.
- It was recognised as the 11th buffalo breed in India by the Indian Breed Registration Committee.
- It is also known for its night grazing quality.

83. A

- Sol.
- The folk dance named 'TerahTaali' traditionally is associated with Rajasthan.
 - It is performed by Kamar tribes and well-skilled artists.
 - It is generally performed by two or three women who sit on the ground.
 - Some other folk dances are Kathputli, Bhopa, Chang, Ghindr, Kachchhighori, Tejaji etc.
 - Rajasthan is the largest Indian state by area and the seventh-largest by population.
 - It is one of the most popular tourist destinations in India for both domestic and international tourists.

84. B

- Sol.
- Varahi river forms the Kunchikal waterfall in Karnataka.
 - It is also known as the Haladi river in downstream areas.
 - It joins the Arabian sea after flowing through places like Halady, Basrur, Kundapura and Gangolli.
 - Kunchikal falls is the highest waterfalls in India and also the second-highest in Asia.
 - Mandovi River is described as the lifeline of the Indian state of Goa and it is also known as Mahadayi or Mhadei river.
 - Kabini River is one of the major tributaries of the river Cauvery in southern India.

85. C

- Sol.
- Mercury toxicity is responsible for the so-called 'Madheat disease'.
 - Mercury poisoning is a type of metal poisoning due to exposure to mercury.

- It can result in death, mental retardation, dysarthria, blindness, neurological deficits, loss of hearing, developmental defects.
- Vitamin D deficiency is most commonly caused by a lack of exposure to sunlight.
- It may also occur from a lack of diet, poor absorption, or have a metabolic need for higher amounts.

86. D

- Sol.
- Karnataka had an Upper House in the state legislature as of 31 July 2020.
 - Karnataka Vidhana Parishad is the upper house of the bicameral legislature of Karnataka state.
 - It is a permanent body comprising 75 members.
 - Karnataka is the only southern state to have land borders with all of the other 4 southern Indian sister states.
 - It is the eighth largest state by population and the sixth-largest Indian state by area.
 - It is popular for its age-old culture, traditions and heritage.

87. A

- Sol.
- Bones is directly affected by the disease called rickets.
 - Rickets is the softening and weakening of bones in children.
 - It causes bone pain, poor growth and soft, weak bones that can lead to bone deformities.
 - The tongue is a muscular organ in the mouth of a typical tetrapod and It is the primary organ of taste.
 - Spleen is a small organ located on the left side of your abdomen under the rib cage.
 - Eyes are organs of the visual system and they detect light & convert it into electro-chemical impulses in neurons.

88. A

- Sol.
- Jammu and Kashmir is traditionally associated with a yoghurt-based gravy dish

called 'Yakhni'.

- Yakhni is a class of dishes prepared in a vast area from South Asia to the Balkans
- It is often the base for many foods including pilaf and other shorbas or soups.
- Jammu & Kashmir is famous for its carpet weaving, silks, shawls, basketry, pottery, copper and silverware, papier-mâché and walnut wood.
- Uttar Pradesh is the most populated state in India and the most populous country subdivision in the world.
- Madhya Pradesh is the second-largest Indian state by area and the fifth largest state by population.

89. A

- Sol.
- The natural habitat of White-bellied Heron largely distributed in the northeast.
 - White-bellied heron is also known as the Imperial heron or great white-bellied heron.
 - It is mostly solitary and occurs in undisturbed riversides or wetlands.
 - It is mostly dark grey with a white throat and underparts.
 - It has been listed as Critically Endangered on the IUCN Red List since 2007.
 - Deccan Plateau is a large plateau in southern India between the Western Ghats and the Eastern Ghats.

90. C

- Sol.
- Sakshi Malik won an Olympic medal in the year 2016 in 58 kg.
 - She became the first Indian female wrestler to win a medal at the Olympics.
 - 2016 Summer Olympics were an international multi-sport event held from 5 to 21 August 2016 in Rio de Janeiro, Brazil.
 - These were the first Olympic Games to be held in South America and the first to be held in a Portuguese-speaking country.
 - It was the first since 2000 to be held in the Southern Hemisphere.
 - The United States topped the medal table by winning the most gold medals and the highest number of medals overall.

91. C

- Sol. • The computer software and hardware sector of the Indian economy was the second-largest recipient of Foreign direct investment in India during 2019-20.
- The service sector of the Indian economy was the largest recipient of Foreign direct investment in India during 2019-20.
- India was the 9th largest recipient of FDI in 2019 according to The World Investment Report 2020.
- India ranked 12 among the top 20 host economies in the world.
- The service sector consists of the production of services instead of end products.
- It involves the provision of services to other businesses as well as final consumers.

92. B

- Sol. • Article 246 of the Constitution of India states that the Parliament has exclusive powers to make laws with respect to any of the matters enumerated in the Union List.
- It has demarcated the powers of the Union and the State by classifying their powers into 3 lists namely Union List, State List and the Concurrent List.
- Article 287 of the Constitution of India is related to Exemption from taxes on electricity.
- Article 362 constitution of India has Rights and privileges of Rulers of Indian States.
- Article 352 relates to the Proclamation of Emergency.

93. C

- Sol. • $23\frac{1}{2}^\circ$ in the Southern Hemisphere represents the Tropic of Capricorn.
- It is the circle of latitude that contains the subsolar point in December.
- It is thus the southernmost latitude where the Sun can be seen directly overhead.
- $23\frac{1}{2}^\circ$ in the Northern Hemisphere represents the Tropic of Cancer.
- It is the most northerly circle of latitude on Earth at which the Sun can be directly overhead.
- $66\frac{1}{2}^\circ$ in the Southern Hemisphere represents the Arctic Circle.

- **66½° in the Northern Hemisphere** represents the **Antarctic Circle**.

94. C

- Sol.
- **Ramachandra Guha** was honoured with the '**Honorary Foreign Member Award2019**' by the American Historical Association.
 - He is an **important authority on the history of modern India**.
 - He is a **trustee of the New India Foundation fellowship programme**.
 - **Irfan Habib** is an **Indian historian of ancient and medieval India**.
 - It is well known for its **strong stance against Hindutva and Muslim communalists**.
 - **Nayanjot Lahiri** is Known for **Work in Archaeology** and she is the **winner of the 2013 Infosys Prize in the humanities**.

95. B

- Sol.
- The term '**vithi**' referred to an administrative unit in the context of the Gupta administration.
 - **Gupta Empire** was an **ancient Indian empire that existed from the early 4th century CE to the late 6th century CE**.
 - This period is considered the **Golden Age of India by historians** and it covered **much of the Indian subcontinent**.
 - The period gave **rise to achievements in architecture, sculpture and painting**.
 - This period is **generally regarded as a classic peak of North Indian art for all the major religious groups**.

96. C

- Sol.
- **Tera** is the largest as compared to the others of the units mentioned in the options.
 - It is a **unit prefix in the metric system denoting multiplication by one trillion**.
 - **Hecto** is a **decimal unit prefix in the metric system denoting a factor of one hundred**.
 - **Deca** is a **decimal unit prefix in the metric system denoting a factor of ten**.
 - **Giga** is a **unit prefix in the metric system denoting a factor of a short-scale billion**.

97. B

- Sol. • **Pluto has a natural satellite named Charon.**
• **Charon is the largest of the five known natural satellites of the dwarf planet Pluto.**
• It is the **sixth-largest known trans-Neptunian object**.
• **Pluto was the first and the largest Kuiper belt object to be discovered.**
• **Mars is the fourth planet from the Sun and the second-smallest planet in the Solar System.**
• **Saturn is the sixth planet from the Sun and the second-largest in the Solar System.**
• **Haumea is a dwarf planet located beyond Neptune's orbit.**

98. B

- Sol. • **The Reserve Bank of India was nationalised in the year 1949.**
• It is **India's central bank** and **regulatory body** and It also **manages the country's main payment systems**.
• It is **responsible for the issue & supply of the Indian rupee** and the **regulation of the Indian banking system**.
• **Union Bank of India** is **one of the largest government-owned banks of India** and It was **established on 11 November 1919 in Bombay**.
• **Central Bank of India** is **one of the oldest and largest nationalised commercial banks in India**.
• **Imperial Bank of India** was **one of the oldest and the largest commercial banks of the Indian subcontinent**.

99. B

- Sol. • **Manu V Devadevan was the recipient of the Infosys Prize 2019 for Humanities.**
• He is an **Indian historian** known for his works on pre-modern south India.
• He currently works at the **School of Humanities and Social Sciences, Indian Institute of Technology, Mandi**.

- Infosys Prize is an annual award given to scientists, researchers, engineers and social scientists of Indian origin.
- It ranks among the highest monetary awards in India to recognize research.
- The prize purse is tax-free in the hands of winners in India.

100. D

Sol. ● Nirmala Sitharaman was the Indian Cabinet Minister of Corporate Affairs on 31 July 2020.

- She serves as the current Minister of Finance and Corporate Affairs of India.
- She became the second female finance minister and first full-time female Finance Minister.
- Pralhad Joshi is the current Union Minister of Parliamentary Affairs, Coal and Mines of India
- Gajendra Singh Shekhawat is currently serving as Union Cabinet Minister in the Ministry of Jal Shakti.
- Mahendra Nath Pandey is currently serving as Minister of Heavy Industries.

Mock Test Solutions in Hindi

Questions

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

The crow held back to the piece of bread with its claws.

- A. to the piece
 - B. The crow held back
 - C. of bread
 - D. with its claws

2. Select the most appropriate word to fill in the blank.

Rohit prepared an chart on the benefits of afforestation.

- | | |
|---------------|--------------|
| A. enhanced | B. elaborate |
| C. auspicious | D. oriental |

3. Select the most appropriate one-word substitution for the given group of words. One who reads a lot

- A. Clever
 - B. Bookworm
 - C. Witty
 - D. Intelligent

4. 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'. The team members will meet on a airport at 7 a.m. tomorrow.

- A. substitution required
 - B. by an airport
 - C. at the airport
 - D. in the airport

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

After we had ate a hearty meal, we went to sleep.

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

Break new ground

- A. Break an old structure
 - B. Build a new house
 - C. Do or discover something new
 - D. Dig fresh ground for sowing seeds

7. Select the most appropriate word to fill in the blank.

He helped me with the lessons _____ I should fail.

- A. because
- B. unless
- C. so that
- D. lest

8. Select the INCORRECTLY spelt word.

- A. Pleasant
- B. Persistent
- C. Accountant
- D. Reluctant

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

We should focus on only one thing in the time.

- A. in the time
- B. focus on
- C. We should
- D. only one thing

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

Please don't create panic among people during that difficult times.

- A. No substitution required
- B. these
- C. those
- D. this

11. Select the INCORRECTLY spelt word.

- A. Instructor
- B. Contractor
- C. Prosecutor
- D. Compititor

12. Select the most appropriate word to fill in the blank.

After the trek I felt a _____ pain in my leg.

- A. strict
- B. stern
- C. severe
- D. sour

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

POTENT

- A. powerful
- B. beautiful
- C. graceful
- D. wonderful

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

COMPLEX

Rohan is quite popular among his classmates.

- A. among
 - B. between
 - C. along
 - D. across

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

VALIANT

- | | |
|------------|-------------|
| A. worthy | B. cowardly |
| C. gallant | D. barren |

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

LIMPID

- | | |
|------------|-----------|
| A. lucid | B. blunt |
| C. obscure | D. subtle |

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

Make impure by adding inferior substances

- | | |
|---------------|---------------|
| A. Obviate | B. Adulterate |
| C. Adjudicate | D. Obliterate |

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

We watched the workman to be removing the damaged tiles.

- A. to removing
 - B. remove
 - C. to remove
 - D. No substitution required

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

Sell like hot cakes

- A. Sell at a loss
 - B. Sell stale cakes
 - C. Sell very fast
 - D. Sell very slowly

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

We are having a great time in Darjeeling (##Q1##) the temperature is hitting (##Q2##) all time low this season. We did carry (##Q3##) warm clothing but we completely (##Q4##) our umbrellas and it has been (##Q5##) ever since we got here.

Select the most appropriate option to fill in blank no.

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

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

- | | |
|---------------|-----------------|
| A. acceptable | B. capable |
| C. adequate | D. satisfactory |

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

- | | |
|-----------|-------------|
| A. forgot | B. failed |
| C. foiled | D. finished |

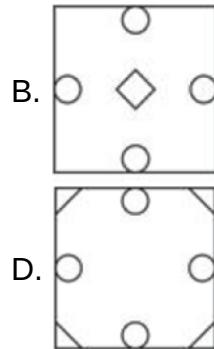
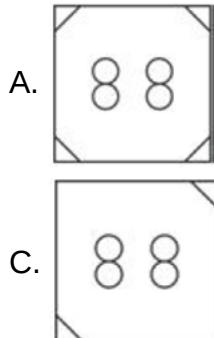
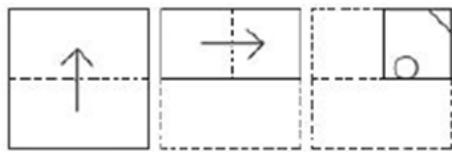
25. Select the most appropriate option to fill in blank no. 5

- A. pouring
 - B. slashing
 - C. drenching
 - D. showering

26. छह छात्र, L, M, N, O, P और Q, उत्तर की ओर मुख करके खड़े हैं, लेकिन आवश्यक नहीं है कि इसी क्रम में हों। L किसी एक कोने पर है और Q उसके बगल में है। M, P की ठीक दाईं ओर है। M दाएं छोर से दूसरे स्थान पर है। N, Q के बगल में नहीं है। Q की ठीक दाईं ओर कौन खड़ा है?

- | | |
|------|------|
| A. P | B. L |
| C. M | D. O |

27. एक कागज को बिंदीदार रेखाओं पर मोड़ा जाता है जैसा कि पहली दो आकृतियों में दर्शाया गया है, और तीसरी आकृति में दर्शाए अनुसार काटा जाता है। कागज खोले जाने पर कैसा दिखाई देगा?



28. * प्रतीकों को क्रमिक रूप से प्रतिस्थापित करने और दिए गए समीकरण को संतुलित करने के लिए गणितीय प्रतीकों के सही संयोजन का चयन करें।

$$11 * 4 * 3 * 3 * 7 * 8$$

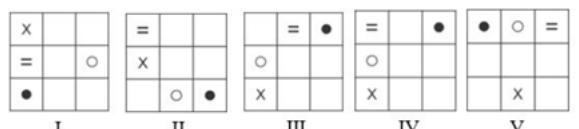
- A. $+, -, \times, \div, =$ B. $\times, \div, +, -, =$
 C. $+, \times, \div, -, =$ D. $\times, -, \div, =, +$

29. दिए गए विकल्पों में से संख्याओं के उस समुच्चय का चयन करें जो दिए गए समुच्चय के समान हो।

(17, 39, 11)

- A. (13, 47, 19) B. (11, 35, 14)
 C. (18, 44, 13) D. (15, 27, 7)

30. ज्ञात कीजिए कि किस आकृति को हटाया जाना है ताकि । से शुरू होकर सभी एक पैटर्न में फिट हो जाएं।



- A. III B. IV
 C. V D. II

31. निम्नलिखित को तार्किक और सार्थक क्रम में व्यवस्थित करें।

- I. कामेट पर्वत
 II. कंचनजंगा

III. नंदा देवी

IV. सालतोरो कांगड़ी

A. II, I, III, IV

B. III, I, IV, II

C. III, IV, I, II

D. I, III, II, IV

32. एक निश्चित कूट भाषा में, '893' का अर्थ है 'Shahid likes cakes', '137' का अर्थ है 'cakes are delicious', और '274' का अर्थ है 'we are girls'। निम्न में से कौन सा विकल्प 'girls' के लिए कूट हो सकता है?

A. 3

B. 2

C. 7

D. 9

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

कथन:

A) कुछ पुरुष बंगाली हैं।

B) सभी महिला, बंगाली हैं।

निष्कर्ष:

I. कोई बंगाली, पुरुष नहीं है।

II. कुछ महिला, पुरुष हैं।

III. सभी महिला, पुरुष हैं।

IV. कोई महिला, पुरुष नहीं है।

A. दोनों निष्कर्ष I और II अनुसरण करते हैं।

B. या तो निष्कर्ष II या III या IV अनुसरण करता है।

C. केवल निष्कर्ष I अनुसरण करता है।

D. दोनों निष्कर्ष I और IV अनुसरण करते हैं।

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

आलू : तना :: चना : ?

A. बीज

B. जड़

C. दाल

D. फूल

35. एक निश्चित कूट भाषा में, '274' का अर्थ है 'you are fool', '137' का अर्थ है 'Rohan is fool', और '893' का अर्थ है 'Riya likes

Rohan' | निम्नलिखित में से कौन सा विकल्प 'is' के लिए कूट है?

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

कथनः

- 1) कुछ लड़के कक्ष || में हैं।
2) शेखर कक्षर || में नहीं है।

ନିଷକ୍ତି-

- I. शेखर एक लड़का नहीं है।

II. कक्षा ॥ का कोई छात्र लड़का नहीं है।

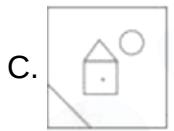
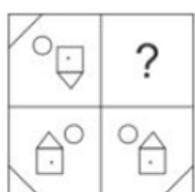
- A. दोनों निष्कर्ष | और || अनुसरण करते हैं

B. केवल निष्कर्ष || अनुसरण करता है

C. दोनों निष्कर्ष || और ||| अनुसरण करते हैं

D. या तो निष्कर्ष | या ||| अनुसरण करता है

37. दिए गए पैटर्न के छुटे हए हिस्से को दिए गए विकल्प में से चयन करके पूरा करें।



38. उस विकल्प का चयन करें जिसमें संख्या-युग्म वही संबंध साझा नहीं करता है जो दिए गए संख्या-युग्म द्वारा साझा किया गया है।

7 : 216

- C. 8 : 343 D. 13 : 1724

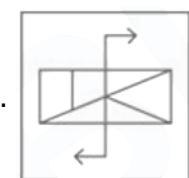
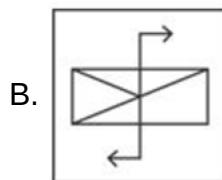
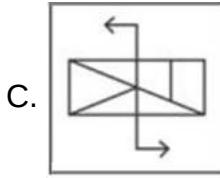
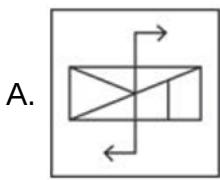
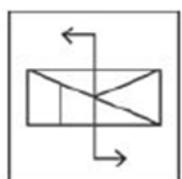
39. दिए गए समीकरण को सही बनाने के लिए किन दो प्रतीकों को आपस में बदला जाना चाहिए?

$$17 \times 3 \div 6 - 2 + 7 = 55$$

- A. - और × B. ÷ और -

- C. ÷ और × D. + और ×

40. दी गई आकृति की सही दर्पण छवि का चयन करें जब दर्पण को आकृति की दर्दी ओर स्थापित किया जाता है।



41. उस संख्या का चयन करें जो दी गई संख्या श्रृंखला में पूरशनवाचक चिन्ह (?) को प्रतिस्थापित कर सकती है।

- 15, 19, 28, 44, ?, 105

- C. 64 D. 76

42. यदि एक कूट भाषा में 'HOOK' को 'KUXW' के रूप में लिखा जाता है, तो उसी कूट भाषा में 'COKE' को किस प्रकार लिखा जाएगा?

- C. FXNH D. FUWH

43. अक्षरों के उस संयोजन का चयन करें जिसे दी गई अक्षर शृंखला के रिक्त स्थानों में करमिक रूप से रखे जाने पर शृंखला पूर्ण हो जाएगी।

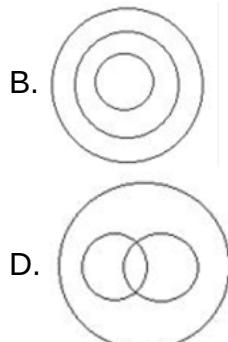
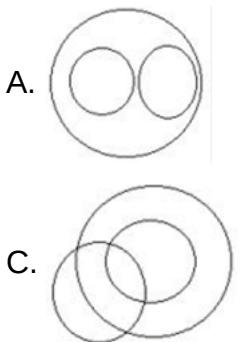
c d k n d k d c

- A. knncc
C. kcncn

B. knccn
D. nkcdn

44. यदि एक कूट भाषा में 'WICE' को 'DRXV' के रूप में लिखा जाता है, तो उसी कूट भाषा में 'ROPE' को कैसे लिखा जाएगा?

45. निम्नलिखित में से कौन सा आरेख महिलाओं, लड़कियों और दुर्लभों के बीच सबसे अच्छे संबंध को दर्शाता है?



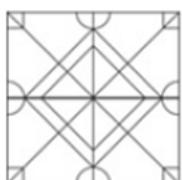
46. उस संख्या का चयन करें जो दी गई संख्या शूरूखला से संबंधित नहीं है।

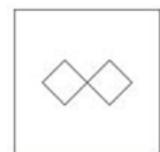
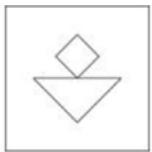
39, 46, 60, 82, 109, 144

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

HOST : JKYL :: SOLO : ?

48. उस आकृति का चयन करें जो दी गई आकृति में अंतर्निहित नहीं है (रोटेशन की अनुमति नहीं है)।





- A.

- B

- 6

- D

49. एक परिसर में सात पंक्ति घर अर्थात् M, N, O, P, Q, R और S हैं, लेकिन आवश्यक नहीं है कि इसी क्रम में हो। P किसी भी छोर पर नहीं है। R, P की ठीक दाईं ओर है। S बाईं ओर से तीसरे स्थान पर है। O बाएं छोर पर है। M दाईं ओर से दूसरे स्थान पर है। O, N के बगल में नहीं है। कौन सा पंक्ति घर S की दाईं ओर से दसरे स्थान पर है?

- A. O

- B. R

- C P

- R. M

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

मानव शरीर : औषधि : : पौधे : ?

- A बीज

- B सिंचार्ड

- ८०

- D. कीटजाशक्ति

51. कमल अपनी मासिक आय का $X\%$ बचता है। जब उसके मासिक व्यय में 20% की वृद्धि होती है और मासिक आय में 26% की वृद्धि होती है, तो उसकी मासिक बचत में 60% की वृद्धि होती है। X का मान क्या है?

- A. 12

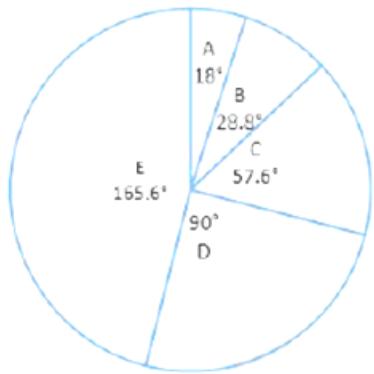
- B. 15

- C. 18

- D. 16

52. **निर्देश:** पाई-चार्ट का अध्ययन करें जो 2019 में कंपनी XYZ के उत्पादों A, B, C, D और E के बिक्री वितरण को दर्शाता है। नीचे दिए गए प्रश्न का उत्तर दें।

बेची गई इकाइयों की कल संख्या = 22500



कंपनी द्वारा बेचे गए उत्पाद C की इकाइयों की संख्या, उत्पाद A और B की कुल इकाइयों की संख्या x से अधिक है। x का मान किसके बीच स्थित है।

C. $\frac{5}{6}$ D. $\frac{2}{3}$

58. दो अंकों की संख्या 41, $x \times 5$ और 44 का औसत 57 है। $(x + 5)$ और $2x - 9$ का औसत क्या है?

A. 10

B. 13

C. 9

D. 11

59. कुछ फल 100 रुपये में 11 की दर पर और दोगुनी संख्या में 8 रुपये की दर से 100 रुपये में खरीदे जाते हैं। यदि सभी फल 100 रुपये में 9 की दर पर बेचे जाते हैं, तो लाभ या हानि प्रतिशत क्या है?

A. लाभ, 3%

B. हानि, 3%

C. लाभ, $4\frac{1}{9}\%$ D. हानि, $2\frac{2}{9}\%$

60. 5 वर्षों के लिए 8% प्रति वर्ष की दर से साधारण ब्याज 3,960 रुपये है। उसी राशि पर $6\frac{2}{3}$ वर्षों के लिए 12% वार्षिक की दर से साधारण ब्याज कितना होगा?

A. 6, 600

B. 5, 280

C. 7, 920

D. 8, 000

61. $36 \div [24 + \{30 - (60 - 60 \div 4 \times 5 \text{ of } 2)\}]$ का मान है:

A. $\frac{1}{4}$ B. $\frac{1}{2}$ C. $\frac{1}{3}$ D. $\frac{2}{3}$

62. 92 छात्रों की एक कक्षा में, लड़कों की संख्या का लड़कियों की संख्या से अनुपात 12:11 है। परीक्षा में लड़कियों का औसत अंक लड़कों की तुलना में $33\frac{1}{3}\%$ अधिक है। यदि सभी छात्रों के औसत अंक 80 है, तो लड़कियों के औसत अंक क्या है?

A. 88

B. 84

C. 92

D. 96

63. $\frac{\frac{6.25+\frac{6}{7}}{21-3}}{\frac{3}{4} \text{ का } (15.8-3.4)+5 \times 2.39}$ का मान है:

A. 0

B. 1

C. $\frac{11}{5}$ D. $\frac{17}{5}$

64. माना $x \times 4$ अंकों की सबसे बड़ी संख्या है जो 16, 21, 24 और 28 प्रत्येक से विभाज्य है। x के अंकों का योग ज्ञात कीजिए?

A. 19

B. 21

C. 24

D. 16

65. एक ट्रेन एक निश्चित गति से 108 किमी की दूरी तय करती है। यदि इसकी गति में 18 किमी/घंटा की वृद्धि की जाती है, तो यह समान दूरी को तय करने में 18 मिनट कम समय लेती है। ट्रेन की वास्तविक गति (किमी/घंटा में) क्या है?

A. 72

B. 80

C. 63

D. 54

66. माध्यिका का माध्य और औँकड़ों की श्रेणी क्या है:

45, 40, 38, 60, 55, 36, 31, 52, 42, 44?

A. 34

B. 32

C. 35

D. 36

67. एक वस्तु का बाजार मूल्य 3,600 रुपये है। बिक्री के दौरान इस पर $x\%$ और 15% की लगातार दो छूट दी जाती है। यदि वस्तु का विक्रय मूल्य 2,448 रुपये है, तो x का मान है:

A. 25

B. 18

C. 20

D. 10

68. एक वस्तु को 270 रुपये में बेचने पर, एक दुकानदार को 20% का लाभ होता है। यदि वह इसे 210 रुपये में बेचता है, तो उसका लाभ या हानि प्रतिशत क्या है?

A. हानि, $6\frac{2}{3}\%$ B. लाभ, $7\frac{1}{7}\%$ C. लाभ, $6\frac{2}{3}\%$ D. हानि, $7\frac{21}{37}\%$

69. A और B एक काम को क्रमशः 12 दिन और 20 दिन में पूरा कर सकते हैं। वे 4 दिनों के लिए एक साथ काम करते हैं। C अकेला शेष कार्य को 14 दिनों में पूरा करता है। B और C मिलकर समान कार्य को कितने समय में पूरा कर सकते हैं?

A. 16 दिनों

B. 12 दिनों

C. 15 दिनों

D. 10 दिनों

70. एक व्यक्ति शांत जल में 10 किमी/घंटा की गति से नाव चला सकता है। धारा की गति $1\frac{1}{9}$ मीटर/सेकंड है। उसके द्वारा धारा के प्रतिकूल 72 किमी की दूरी तय करने में लिया गया समय (घंटों में) है:A. $5\frac{1}{7}$ B. $5\frac{2}{7}$

C. 10

D. 12

71. x, y और z का औसत z से 6 अधिक है। x और y का औसत 50 है। यदि u, z से 6 कम है, तो u और z का औसत क्या है?

A. 43

B. 38

C. 40

D. 39

72. एक पुस्तकालय में, गणित की पुस्तकों की संख्या का भौतिकी की पुस्तकों से अनुपात, भौतिकी की पुस्तकों की संख्या और रसायन विज्ञान की पुस्तकों की संख्या के अनुपात के समान है। यदि 144 गणित की पुस्तकों और 100 रसायन विज्ञान की पुस्तकें हैं, तो गणित और भौतिकी की पुस्तकों की कुल संख्या का रसायन विज्ञान और भौतिकी की पुस्तकों की कुल संख्या से अनुपात है:

A. 3 : 2

B. 6 : 5

C. 5 : 4

D. 4 : 3

73. जब 55, 50, 23 और 22 में से प्रत्येक से x घटाया जाता है, तो इस क्रम में प्राप्त संख्याएँ समानुपाती होती हैं। 3, 7 और x का

चतुर्थानुपाती क्या है?

- | | |
|--|-----------------------|
| A. 35 | B. 27 |
| C. 40 | D. 30 |
| एक राशि 2 वर्षों में 11,616 रुपये और 3 वर्षों में 12,777.60 रुपये हो जाती है, जब ब्याज वार्षिक रूप से संयोजित होता है। योग (रुपये में) है: | |
| A. 8,500 | B. 8,400 |
| C. 9,600 | D. 9,000 |
| $\frac{4}{9} \div \left(\frac{3}{5} - \frac{1}{2} \right) \times \frac{9}{25} - \left(\frac{2}{3} \div \frac{3}{4} \text{ का } \frac{5}{3} \right) + \left(5\frac{1}{4} \div \frac{3}{7} \text{ का } \frac{1}{4} \times \frac{3}{35} \right)$ का मान ज्ञात कीजिए? | |
| A. $2\frac{3}{5}$ | B. $1\frac{3}{5}$ |
| C. $5\frac{4}{15}$ | D. $1\frac{7}{15}$ |
| सूफी परंपराओं के संदर्भ में 'समा (Sama)' शब्द का क्या अर्थ है? | |
| A. स्स्वर पाठ | B. जादुई कर्म |
| C. शिष्य | D. आश्रम |
| उत्तराखण्ड की संस्कृति के सन्दर्भ में 'काफुली' किसका नाम है? | |
| A. व्यंजन (cuisine) | B. लोक नृत्य |
| C. त्योहार | D. पैटिंग की शैली |
| निम्नलिखित क्रांतिकारियों में से कौन 'मास्टर दा' के नाम से प्रसिद्ध थे? | |
| A. अशफाकउल्ला खान | B. बटुकेश्वरदत्त |
| C. राम प्रसाद बिस्मिल | D. सूर्य सेन |
| हर पांच साल में की जाने वाली शेरों की जनगणना के अनुसार, जून 2020 में गुजरात के गिर वन क्षेत्र में एशियाई शेरों की संख्या बढ़कर _____ हो गई है। | |
| A. 705 | B. 547 |
| C. 598 | D. 674 |
| निम्नलिखित में से किस खिलाड़ी ने 2012 के लंदन ओलंपिक में रजत पदक जीता था? | |
| A. साइना नेहवाल | B. सुशील कुमार |
| C. गगन नारंगु | D. एमसी मैरी कॉम |
| 'माई जर्नी: ट्रांसफॉर्मिंग डरीम्स इन एक्शन' नामक पुस्तक आत्मकथा है: | |
| A. प्रतिभा पाटिल | B. अटल बिहारी वाजपेयी |
| C. एपीजे अब्दुल कलाम | D. लाल कृष्ण आडवाणी |
| भारत के निम्नलिखित में से किस राज्य में 'बन्नी' नाम की भेंस की नस्ल मुख्य रूप से पाई जाती है? | |

A. अनुच्छेद 287

B. अनुच्छेद 246

C. अनुच्छेद 362

D. अनुच्छेद 352

93. निम्नलिखित में से कौन सी अक्षांश रेखा मकर रेखा का प्रतिनिधित्व करती है?

A. उत्तरी गोलार्ध में $23\frac{1}{2}^\circ$

B. दक्षिणी गोलार्ध में $66\frac{1}{2}^\circ$

C. दक्षिणी गोलार्ध में $23\frac{1}{2}^\circ$

D. उत्तरी गोलार्ध में $66\frac{1}{2}^\circ$

94. निम्नलिखित में से किसे अमेरिकन हिस्टोरिकल एसोसिएशन द्वारा 'मानद विदेशी सदस्य पुरस्कार 2019' से सम्मानित किया गया?

A. नयनजोत लाहिड़ी

B. इरफान हबीबा

C. रामचंद्र गुहा

D. भैरवी प्रसाद साहू

95. गुप्त प्रशासन के सन्दर्भ में 'विथि (vithi)' शब्द का संदर्भ है:

A. गज इकाई

B. प्रशासनिक इकाई

C. राजा का निजी रक्षक

D. सैनिक

96. विकल्पों में उल्लिखित इकाइयों में से कौन सा अन्य की तुलना में सबसे बड़ा है?

A. हेक्टो

B. डेका

C. टेरा

D. गीगा

97. निम्नलिखित में से किस खगोलीय पिंड में 'चारोन' नामक एक प्राकृतिक उपग्रह है?

A. हौमिया

B. प्लूटो

C. मंगल ग्रह

D. शनि

98. वर्ष 1949 में _____ का राष्ट्रीयकरण किया गया था।

A. यूनियन बैंक ऑफ इंडिया

B. भारतीय रिजर्व बैंक

C. सेंट्रल बैंक ऑफ इंडिया

D. इंपीरियल बैंक ऑफ इंडिया

99. निम्नलिखित में से कौन मानविकी के लिए इन्फोसिस पुरस्कार 2019 का प्राप्तकर्ता था?

A. केशवन वेलुथाट

B. मनु वी देवदेवन

C. वाई सुब्बारायलु

D. शिरीन मिओलुतोस्वि

100. 31 जुलाई 2020 तक कॉर्पोरेट मामलों के भारतीय कैबिनेट मंत्री कौन थे?

A. प्रह्लाद जोशी

B. महेंद्र नाथ पाण्डेय

C. गजेंद्र सिंह शेखावाटी

D. निर्मला सीतारमण

Solutions

1. B

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

* “Hold something/someone back” is used prevent someone/something from moving forward or crossing something.

For example:

The police were unable to hold back the crowd.

* “Hold on to something/someone” is used to keep holding something/someone.

For example:

She held on to the back of the chair to stop herself from falling.

* In the given sentence, we need the sense of “continuous hold of claws over the piece of bread”. Thus, phrasal verb “held on” should be used in place of “hold back”.

Note: Tense of the sentence is not changed until some context, or any time word is there that necessitates such change in tense. In the given sentence, no such compulsion of change in tense is there. Thus, past tense is not changed while doing the correction in the sentence.

* Hence, “The crow held on” is the correct substitution.

Thus, the correct sentence will be:

The crow held on to the piece of bread with its claws.

2. B

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

* Enhanced = to increase or further improve the good quality of someone/something.

* Elaborate = very complicated and detailed; carefully prepared and organised

* Auspicious = showing signs that something is likely to be successful in the future.

* Oriental = a person from China, Japan or other countries in East Asia.

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

- * "Enhanced" is used in context of "improving something" Thus, option A is incorrect.
- * "Auspicious" is used in context of "signs of success". Thus, option C is incorrect.
- * "Oriental" is used in context of "person from east Asia". Thus, option D is incorrect.
- * "Elaborate" is used in context of "detailed". Here in the given sentence, it used to show that a detailed chart was prepared by Rohit on the advantages of afforestation.

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

The correct sentence will be: Rohit prepared an elaborate chart on the benefits of afforestation.

3. B

Sol. Clever: a person who is quick at learning and understanding things

Bookworm: a person who likes reading very much

Witty: clever and humorous

Intelligent: good at learning, understanding and thinking in a logical way.

Hence, option B is the correct answer.

4. C

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

* Underlined part needs correction in preposition.

* "On" as a preposition is used to show "in or into position covering, touching or forming part of a surface."

For example:

Put the book on the table.

* "At" as a preposition is used to show "say where something/someone is or where something happens."

For example:

We arrived late at the airport.

We will be at home in the evening.

- * In the underlined sentence, we need the sense of “location of meeting” which is reflected in the usage of preposition “at”. Thus, it is appropriate to use preposition “at” in place of preposition “on”.
- * Hence, “at the airport” is the correct substitution.

Thus, the correct sentence will be: The team members will meet at the airport at 7 a.m. tomorrow.

Hence, option C is the correct answer.

5. C

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

- * When two actions of the past are mentioned then the action that happened first is written in past perfect form and the one that happened later is written in simple past tense.

For example:

After they had gone, there was a complete silence in the room.

- * In the given sentence, the past perfect form (had + third form of verb) is written in wrong manner. Second form of verb “ate” is written after “had”, which is wrong. Thus, third form of verb “eaten” should be used.

- * Hence, “After we had eaten” is the correct substitution.

Thus, the correct sentence will be:

After we had eaten a hearty meal, we went to sleep.

6. C

Sol. The idiom “Break new ground” means to make new discovery or do something that has not been done before

Example: His technical designs have broken new ground in the field of electronics.

Hence, option C is the correct answer.

7. D

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

- * Because = (conjunction) for the reason that
- * Unless = (conjunction) used to say that something can only happen or be true in a particular situation.
- * So that = (conjunction) in such a way that
- * Lest = (conjunction) in order to prevent something from happening.

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

- * "Because" is used in context of "mentioning the reason" Thus, option A is incorrect.
- * "Unless" is used in context of "happening of something based on condition". Thus, option B is incorrect.
- * "So that" is used in context of "in such a way that". Thus, option C is incorrect.
- * "Lest" is used in context of "to prevent something from happening". Here in the given sentence, it used to show that "I" should be helped in order to prevent "I" from failing.

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

The correct sentence will be: He helped me with the lessons lest I should fail.

8. A

Sol. Option A has incorrectly spelt word.

"Pleasant" is the correct spelling of the incorrect word "Pleasent". It means fun, attractive, or giving pleasure.

The meaning of other words are:

Persistent: determined to do something despite difficulties.

Accountant: a person whose job is to keep or check financial accounts.

Reluctant: hesitating before doing something because you don't want to do it or you are not sure that it is the right thing to do.

9. A

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

* "At a time" means separately or in groups of two, three, etc. on each occasion.

For example:

Employees had to go and see the manager one at a time.

He believes in doing one project at a time.

* In the given sentence, "at a time" should be used to show doing one thing at one time.

* Hence, "at a time" is the correct substitution.

Thus, the correct sentence will be: We should focus on only one thing at a time.

10. B

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

* Underlined part needs correction in determiner.

* "This", "These", "That" and "Those" are determiners used when something has already been mentioned or is already known about.

* But "This" and "These" as a determiner are used to refer to a person or thing that is near the speaker or as near to the speaker as another. "This" is used for singular entities, and "These" is used for plural entities.

* Whereas "That" and "Those" as a determiner are used to refer to a person or thing that is not near the speaker or as near to the speaker as another. "That" is used for singular entities and "Those" is used for plural entities.

* For example:

There is a court case resulting from this incident.

Movies are all about making money these days.

Please have a look at that man over there.

I have nothing but admiration for the way she tackled those bullies.

* In the underlined sentence, it is clear that speaker is talking about something which is known and is currently being experienced by us. The current prevalence of “difficult times” justifies the context of “nearness” to the speaker. Thus, it is appropriate to use determiner “these” in place of determiner “that”.

* Hence, “these” is the correct substitution.

Thus, the correct sentence will be:

Please don't create panic among people during these difficult times.

Hence, option B is the correct answer.

11. D

Sol. Option D has incorrectly spelt word.

“Competitor” is the correct spelling of the incorrect word “Compititor”. It means a person who takes part in a competition.

The meaning of other words are:

Instructor: a person whose job is to teach someone a practical skill or sport.

Contractor: a person or company that has a contract to do work.

Prosecutor: a public official who charges someone officially with a crime and prosecutes them in court.

12. C

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

- * Strict = something that must be obeyed exactly OR very exact and clearly defined
- * Stern = serious and often showing that one does not approve of someone/something
- * Severe = extremely bad or serious
- * Sour = having a taste like that of a lemon

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

- * "Strict" is used in context of "obeying exactly" Thus, option A is incorrect.
- * "Stern" is used in context of "disapproving something". Thus, option B is incorrect.
- * "Sour" is used in context of "taste like lemon". Thus, option D is incorrect.
- * "Severe" is used in context of "extremely bad". Here in the given sentence, it used to show that extremely bad or serious pain was there in the leg after the trek.

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

The correct sentence will be: After the trek I felt a severe pain in my leg.

13. A

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

Potent = having a strong effect on one's body or mind OR being powerful.

E.g.: The opposition parties put forward a potent argument in the parliament.

Powerful = being able to control and influence people and events.

E.g.: Today, India has become increasingly powerful force on the world stage.

Beautiful = having beauty; giving pleasure to the sense or to the mind.

Graceful = moving in an attractive way that shows control.

Wonderful = very good, pleasant.

Hence, option A is the correct answer.

14. C

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

Complex = complicated.

E.g.: We are living in an increasingly complex world.

Knotty = complicated and difficult to solve

Motley = consisting of many different types of people or things that do not seem to belong together.

Simple = not complicated; easy to understand or do

E.g.: This game is supposed to be simple for anyone to play.

Mixed = consisting of different qualities or elements.

Hence, option C is the correct answer.

15. A

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

* Among = being included or happening in groups of things/people

* Between = being included or happening in two persons

* Along = from one end to or towards the other end

* Across = from one side to the other side of something.

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

- * "Between" as a preposition is used in context of "two persons" Thus, option B is incorrect.
- * "Along" as a preposition is used in context of "towards the other end". Thus, option C is incorrect.
- * "Across" as a preposition is used in context of "one side to the other side". Thus, option D is incorrect.
- * "Among" is used in context of "more than two persons". Here in the given sentence, it is used to show the context of "Rohan being popular" in relation to "his classmates" (which is more than two persons).

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

The correct sentence will be:

Rohan is quite popular among his classmates.

16. B

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

Valiant = very brave or determined.

E.g.: He made a valiant attempt not laugh at her silly activities.

Worthy = having the qualities that deserve one's respect or attention.

Cowardly = not brave; not having the courage to do things that other people do not think are especially difficult.

E.g.: The goons took out a cowardly attack on a defenceless man.

Gallant = brave

Barren = willing to do things that are difficult, dangerous, painful; not afraid.

Hence, option B is the correct answer.

17. A

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

Limpid = clear or transparent

E.g.: He gave her a look of limpid honesty.

Lucid = clearly expressed; easy to understand

E.g.: Ramesh gave a lucid account of the events that happened in last financial year.

Blunt = without a sharp edge or point.

Obscure = not well known

Subtle = not very obvious or easy to notice.

Hence, option A is the correct answer.

18. B

Sol. Obviate: to remove a problem or the need for something

Adulterate: to make food or drink less pure by adding another substance to it.

Adjudicate: to make an official decision about who is right between two groups or organisations.

Obliterate: to remove all signs of something.

Hence, option B is the correct answer.

19. B

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

* Underlined part needs correction in verb.

* Verb of perception takes “Object + Bare infinitive”. Some verbs of perception are: see, watch, hear, notice.

* For example:

Someone saw the men leave the building.

I heard someone knock on the door.

* In the underlined sentence, “watched” is the verb of perception and “workman” is the object of this verb.

* So, we have to use bare infinitive form of verb after “workman” i.e. “remove”. Thus, “remove” should be used in place of “to be removing”.

* Hence, “remove” is the correct substitution.

Thus, the correct sentence will be:

We watched the workman remove the damaged tiles.

Hence, option B is the correct answer.

20. C

Sol. The idiom “Sell like hot cakes” means to be bought quickly or in great numbers.

Example: The new video game “Propnight” is selling like hot cakes in the gaming arena.

Hence, option C is the correct answer.

21. B

Sol. The given passage is about “A blissful time in Darjeeling”.

“Whether” as a conjunction is used to show “up to the point in time or the event mentioned”. Thus, option A is wrong.

“Before” as a conjunction is used to show “earlier than the time when something is happening”. Thus, option C is wrong.

“Until” as a conjunction is used to show “up to the point in time or the event mentioned”. Thus, option D is wrong.

“Although” as a conjunction is used to show “for introducing a statement that makes the main statement in a sentence seem surprising”. Here it is used to show that “we” are enjoying their time in Darjeeling though there is a record fall in temperature.

Hence, option B is the correct answer.

22. C

Sol. The given passage is about “A blissful time in Darjeeling”.

“A” as an indefinite article is used before the countable nouns (no vowel sounds) that have not been mentioned before. Thus, option A is wrong.

“Such” as a determiner is used to emphasize the great degree of something. Thus, option B is wrong.

“So” as an adverb is used to show to such a great degree. Thus, option D is wrong.

“An” as a definite article is used before the countable nouns (having vowel sounds) that have not been mentioned before. Here it is used before noun “low” but in accordance with adjective “all” that qualifies the noun “low”. Adjective has a vowel sound.

Note: If a noun is preceded by an adjective then article a/an is decided according to the pronunciation of adjective.

Hence, option C is the correct answer.

23. C

Sol. The given passage is about “A blissful time in Darjeeling”.

“Acceptable” means agreed or approved of by most people in a society. Thus, option A is wrong.

“Capable” means having the ability necessary for doing something. Thus, option B is wrong.

“Satisfactory” means good enough for a particular purpose. Thus, option D is wrong.

“Adequate” means enough in quantity, or good enough in quality for a particular purpose or need. In the given sentence, enough quantity of “warm clothing” is mentioned to counter the low temperature in Darjeeling.

Hence, option C is the correct answer.

24. A

Sol. The given passage is about “A blissful time in Darjeeling”.

“Failed” means to not be successful in achieving something. Thus, option B is wrong.

“Foiled” means to stop something from happening. Thus, option C is wrong.

“Finished” means to stop doing something because it is complete. Thus, option D is wrong.

“Forgot” means to not remember to do something. In the given sentence, “we” did not remember to carry umbrella during their visit to Darjeeling.

Hence, option A is the correct answer.

25. A

Sol. The given passage is about “A blissful time in Darjeeling”.

“Slashing” means to make a long cut with a sharp object. Thus, option B is wrong.

“Drenching” means to make someone/something completely wet. Thus, option C is wrong.

“Showering” means to wash yourself under a shower. Thus, option D is wrong.

“Pouring” means (in context of rain) rain is falling heavily. In the given sentence, it shows that the rain is falling heavily and continuously since “we” visited Darjeeling.

Hence, option A is the correct answer.

26. D

Sol. प्रश्न के अनुसार छात्रों की व्यवस्था है

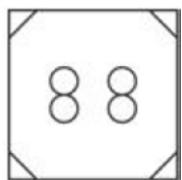
LQOPMN

यहां O, Q की ठीक दाईं ओर है।

इसलिए, विकल्प D सही उत्तर है।

27. A

Sol. जब प्रश्न के अनुसार कागज़ को मोड़ा जाता है और फिर निर्देशों के अनुसार खोल दिया जाता है तो निर्मित आकृति होगी:



इसलिए, विकल्प A सही उत्तर है।

28. C

Sol. इसे हिट एंड ट्रायल विधि द्वारा हल किया जा सकता है, इसलिए विकल्प B में दर्शाए गए गणितीय प्रतीकों को दिए गए समीकरण में रखे और * प्रतीक को प्रतिस्थापित करें।

$$11 * 4 * 3 * 3 * 7 * 8$$

BODMAS नियम लागू करने पर

$$11+4\times3\div3-7=8$$

$$11+4\times1-7=8$$

$$11+4-7=8$$

$$15-7=8$$

$$8=8$$

इसलिए, विकल्प C सही उत्तर है।

29. C

Sol. यहां पैटर्न इस प्रकार है:

$$\text{तीसरा पद} = (\text{दूसरा पद} - \text{पहला पद}) \div 2$$

$$39-17=22 \text{ और } 22\div2=11$$

इसी प्रकार,

$$44-18=26 \text{ और } 26\div2=13$$

इसलिए, विकल्प C सही उत्तर है।

30. B

Sol. यहां पैटर्न इस प्रकार है:

काला बिंदु दो स्थानों पर वामावर्त घूम रहा है

= एक जगह दक्षिणावर्त घूम रहा है

गुणन प्रतीक एक स्थान पर वामावर्त घूम रहा है

तथा वृत्त दो स्थानों पर दक्षिणावर्त घूम रहा है

यहां पहले, दूसरे, तीसरे और पांचवें में पैटर्न अनुसरण करता है लेकिन आकृति IV में यह अनुसरण नहीं करता है।

इसलिए, विकल्प B सही उत्तर है।

31. B

Sol. नंदा देवी, कामेट, सालतोरो कांगड़ी, कंचनजंगा

III I IV II

इसलिए, विकल्प B सही उत्तर है।

32. B

Sol. 893='Shahid likes cakes'

137 = 'cakes are delicious

274 = 'we are girls'

7= are

3= cakes

1= delicious

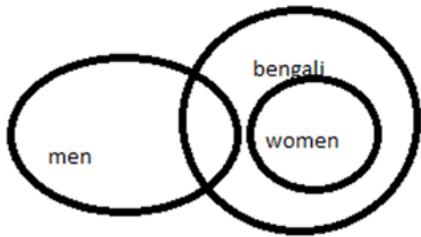
Girls के लिए कूट= या तो 2 या 4

तो, उपलब्ध विकल्प के अनुसार, 2 लड़कियों का कूट है

इसलिए, विकल्प B सही उत्तर है।

33. B

Sol. कथन के रूप में सचित्र प्रतिनिधित्व नीचे दिया गया है :



निष्कर्षः

- I. कोई बंगाली, पुरुष नहीं है - गलत, क्योंकि पुरुष और बंगाली के बीच संबंध है।
- II. कुछ महिला, पुरुष हैं – यह एक निश्चित मामला नहीं है, इसलिए गलत है।
- III. सभी महिला, पुरुष हैं - यह एक निश्चित मामला नहीं है, इसलिए गलत है।
- IV. कोई महिला, पुरुष नहीं है - यह एक निश्चित मामला नहीं है, इसलिए गलत है।

लेकिन, II, III और IV पूरक समुच्चय बनाते हैं,

तो, यो तो निष्कर्ष II या III या IV अनुसरण करता है

इसलिए, विकल्प B सही उत्तर है।

34. A

Sol. आलू : तना :: चना : बीज

आलू एक संशोधित तना है जिसे कंद कहा जाता है इसी तरह चना एक बीज है।

इसलिए, विकल्प A सही उत्तर है।

35. B

Sol. 274= you are fool

137 = Rohan is fool

893= Riya likes Rohan

7= fool

3= rohan

तो, IS का कूट = 1

इसलिए, विकल्प B सही उत्तर है।

36. D

Sol. कथन:

1. कुछ लड़के कक्षर || में हैं।

2. शेखर कक्षा || में नहीं है।

निष्कर्ष:

I. शेखर एक लड़का नहीं है = यह निश्चित मामला नहीं है, इसलिए गलत है।

II. कक्षा || का कोई छात्र लड़का नहीं है = गलत जैसा कि कथन I में कहा गया है कि कुछ लड़के कक्षा || में हैं।

III. शेखर एक लड़का है = यह निश्चित मामला नहीं है, इसलिए गलत है।

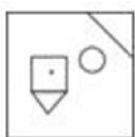
लेकिन, I और III पूरक युग्म बनाते हैं,

तो, या तो निष्कर्ष I या III अनुसरण करता है।

इसलिए, विकल्प D सही उत्तर है।

37. B

Sol.



इसलिए, विकल्प B सही उत्तर है।

38. D

Sol. $216 = (7-1)^3 = 6^3 = 216$

$512 = (9-1)^3 = 8^3 = 512$

$1331 = (12-1)^3 = 11^3 = 1331$

$$(13-1)^3 = 12^3 = 1728, 1724 \text{ के बराबर नहीं है}$$

इसलिए, विकल्प D सही उत्तर है।

39. B

Sol. इस प्रकार के प्रश्न को हिट एंड ट्रायल विधि द्वारा हल किया जाता है, इसलिए \div और $-$ को प्रतिस्थापित करें

$$17 \times 3 \div 6 - 2 + 7 = 55$$

सही समीकरण=

$$17 \times 3 - 6 \div 2 + 7 = 55$$

$$51 - 3 + 7 = 55$$

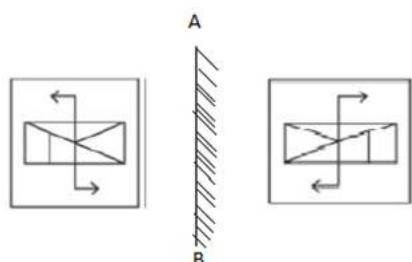
$$48 + 7 = 55$$

$$55 = 55$$

इसलिए, विकल्प B सही उत्तर है।

40. A

Sol. दिए गए प्रश्न का दर्पण प्रतिबिम्ब नीचे दिया गया है।



इसलिए, विकल्प A सही उत्तर है।

41. A

Sol. 15, 19, 28, 44, **69**, 105

$$\begin{array}{cccccc} +4 & +9 & +16 & +25 & +36 \\ 2^2 & 3^2 & 4^2 & 5^2 & 6^2 \end{array}$$

इसलिए, विकल्प A सही उत्तर है।

42. B

Sol.

H	+3	K		C	+3	F
O	+6	U		O	+6	U
O	+9	X		K	+9	T
K	+12	W		E	+12	Q

इसलिए, विकल्प B सही उत्तर है।

43. B

Sol. cknd/cknd/cknd/c

पैटर्न cknd दोहराया जाता है।

इसलिए, विकल्प B सही उत्तर है।

44. D

Sol. यहां तक कि अक्षर एक दूसरे के विपरीत हैं –

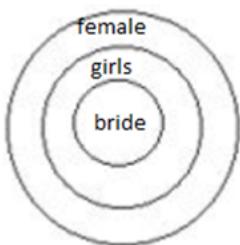
W	↔	D		R	↔	I
I	↔	R		O	↔	L
C	↔	X		P	↔	K
E	↔	V		E	↔	V

A	B	C	D	E	F	G	H	I	J	K	L	M
Z	Y	X	W	V	U	T	S	R	Q	P	O	N

इसलिए, विकल्प D सही उत्तर है।

45. B

Sol.



सभी दुल्हन लड़कियां हैं और सभी लड़कियां महिलाएं हैं।

इसलिए, विकल्प B सही उत्तर है।

46. A

Sol. 39, 46, 60, 82, 109, 144

$$39+7=46$$

$$46+14=60$$

$$60+21=81 \text{ तो यहां } 82 \text{ गलत है।}$$

$$81+28=109$$

$$109+35=144$$

इसलिए, विकल्प A सही उत्तर है।

47. C

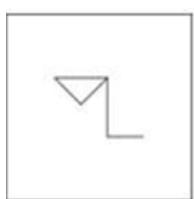
Sol. यहां अनुसरण करने वाले पैटर्न को नीचे समझाया गया है:

H	+2	J		S	+2	U
O	-4	K		P	-4	K
S	+6	Y		L	+6	R
T	-8	L		O	-8	G

इसलिए, विकल्प C सही उत्तर है।

48. B

Sol. विकल्प B में दी गई आकृति अंतर्निहित नहीं है।



इसलिए, विकल्प B सही उत्तर है।

49. B

Sol. प्रश्नों के अनुसार घर की व्यवस्था इस प्रकार है:

OQSPRMN

घर R, S की दाईं ओर से दूसरे स्थान पर है।

इसलिए, विकल्प B सही उत्तर है।

50. D

Sol. मानव शरीर के उपचार के लिए औषधियों का प्रयोग किया जाता है उसी प्रकार पौधों में कीटनाशकों का प्रयोग किया जाता है।

मानव शरीर : औषधि :: पौधे : कीटनाशक

इसलिए, विकल्प D सही उत्तर है।

51. B

Sol. माना कमल की आय = 100 रु.

कमल अपनी मासिक आय का $x\%$ बचाता है।

$$\text{कमल की बचत} = 100 \times \frac{x}{100} = x \text{ रु.}$$

कमल का खर्च = 100 रु. - x रु.

जब उसके मासिक व्यय में 20% की वृद्धि होती है और मासिक आय में 26% की वृद्धि होती है, तो उसकी मासिक बचत में 60% की वृद्धि होती है।

प्रश्नानुसार:

$$\bullet 100 \times \frac{(100+26)}{100} = x \times \frac{(100+60)}{100} + (100-x) \times \frac{(100+20)}{100}$$

$$\bullet 126 = x \times \frac{(160)}{100} + (100-x) \times \frac{(120)}{100}$$

$$\bullet 126 = \frac{8}{5}x + 120 - \frac{6}{5}x$$

$$\bullet \frac{2}{5}x = 6$$

$$\bullet x = \frac{30}{2} = 15$$

52. D

Sol.

उत्पाद C की इकाइयों की संख्या = $\frac{57.6^\circ}{360^\circ} \times 22500 = 3600$

उत्पादों A और B की इकाइयों की कुल संख्या = $\frac{(18+28.8)^\circ}{360^\circ} \times 22500 = 2925$

कंपनी द्वारा बेचे गए उत्पाद C की इकाइयों की संख्या उत्पाद A और B की कुल इकाइयों की संख्या x से अधिक है।

$$\bullet x = 3600 - 2925 = 675$$

अतः, x का मान 670 और 680 के बीच है।

53. C

Sol. उत्पादों B और D की कुल इकाइयों की संख्या =

$$\frac{(28.8 + 90)^\circ}{360^\circ} \times 22500 = \frac{(118.8)^\circ}{360^\circ} \times 22500 = 7425$$

54. C

Sol. 2020 में बेचे गए उत्पादों की कुल इकाइयों की संख्या 2019 की तुलना में 20% अधिक है।

2019 में बेचे गए उत्पादों की कुल इकाइयों की संख्या = 22500

2020 में बेचे गए उत्पादों की कुल इकाइयों की संख्या = $22500 \times \frac{120}{100} = 27000$ रु.

2020 में सभी उत्पादों का बिक्री वितरण 2019 की तरह ही रहेगा।

2020 में बेचे गए उत्पाद E की इकाइयों की संख्या = $\frac{(165.6)^\circ}{360^\circ} \times 27000 = 12420$

2020 में बेचे गए उत्पाद D की इकाइयों की संख्या = $\frac{(90)^\circ}{360^\circ} \times 27000 = 6750$

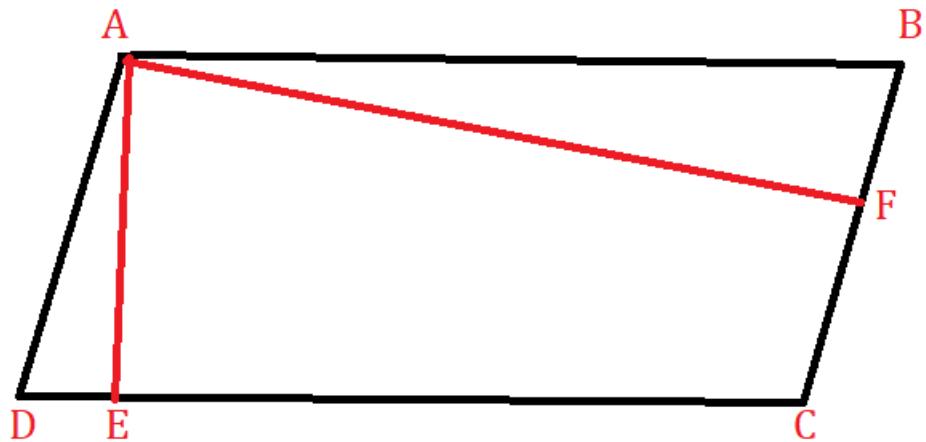
$$\text{अभीष्ट अंतर} = 12420 - 6750 = 5670$$

55. B

Sol. समांतर चतुर्भुज ABCD का क्षेत्रफल 300 सेमी^2 है।

AB और CD के बीच की दूरी = AE = 20 सेमी

BC और AD के बीच की दूरी = AF = 30 सेमी



एक समांतर चतुर्भुज ABCD का क्षेत्रफल = $BC \times AF = AE \times CD$

अब, $AE \times CD = 300$

$$\bullet 20 \times CD = 300$$

$$\bullet CD = 15 \text{ सेमी}$$

तथा, $BC \times AF = 300$

$$\bullet 30 \times BC = 300$$

$$\bullet BC = 10 \text{ सेमी}$$

अब, समांतर चतुर्भुज का परिमाप (सेमी में) = $2(15 + 10) = 50 \text{ सेमी}$

56. B

Sol. ठोस धात्तिक गोले की त्रिज्या = 8.4 सेमी

शंकु के आधार की त्रिज्या (सेमी में) = r सेमी

शंकु की ऊंचाई = 18.9 सेमी

8.4 सेमी त्रिज्या वाले ठोस धातु के गोले को पिघलाकर 18.9 सेमी ऊंचाई वाले एक शंकु में ढाला जाता है।

- ठोस धात्विक गोले का आयतन = शंकु का आयतन

$$\bullet \frac{4}{3}\pi \times (8.4)^3 = \frac{1}{3}\pi \times (r)^2 \times (18.9)$$

$$\bullet 4 \times (8.4)^3 = (r)^2 \times (18.9)$$

$$\bullet r^2 = \frac{2370.816}{18.9} = 125.44$$

$$\bullet r = \sqrt{125.44} = 11.2 \text{ सेमी}$$

अतः, शंकु के आधार की तिरज्या = 11.2 सेमी

57. B

Sol. माना A की दक्षता है = $7x$

B की दक्षता = $6x$

एक साथ कार्य करते हुए, वे उसी कार्य को 21 दिनों में पूरा कर सकते हैं।

$$\text{कुल कार्य} = (6x + 7x) \times 21 = 273x \text{ इकाई}$$

$$26 \text{ दिनों में } B \text{ द्वारा कार्य समाप्त किया गया} = (6x) \times 26 = 156x \text{ इकाई}$$

$$\text{अतः, अकेले } B \text{ द्वारा } 26 \text{ दिनों में पूरा किए गए कार्य का एक भाग} = \frac{156x}{273x} = \frac{4}{7}$$

58. A

Sol. दो अंकों की संख्या 41, $x5$ और 44 का औसत 57 है।

$$\text{औसत} = \frac{\text{अवलोकनों का योग}}{\text{अवलोकनों की कुल संख्या}}$$

$$\bullet 57 = \frac{41+x5+5x+44}{4}$$

$$\bullet x5 + 5x = 57 \times 4 - 41 - 44$$

$$\bullet x5 + 5x = 228 - 85 = 143$$

हम जानते हैं कि $85 + 58 = 143$

अतः, $x = 8$

$$(x + 5) \text{ तथा } 2x - 9 \text{ का औसत} = \frac{x+5+2x-9}{2} = \frac{3(x)-4}{2} = \frac{3(8)-4}{2} = 10$$

59. D

Sol. कुछ फल 100 रुपये में 11 की दर पर और दोगुनी संख्या में 8 रुपये की दर से 100 रुपये में खरीदे जाते हैं।

माना कि 100 रुपये में 11 की दर से खरीदे जाने वाले फलों की संख्या = LCM (8,11) = 88

$$\text{इन } 88 \text{ फलों का क्रय मूल्य} = \frac{100}{11} \times 88 = 88 \text{ रुपये}$$

माना कि 100 रुपये में 8 की दर से खरीदे जाने वाले फलों की संख्या = $88 \times 2 = 176$

$$\text{इन } 176 \text{ फलों का क्रय मूल्य} = \frac{100}{8} \times 176 = 2200 \text{ रुपये}$$

$$\text{फलों की कुल संख्या} = 176 + 88 = 264$$

$$\text{सभी फलों का क्रय मूल्य} = 800 \text{ रु.} + 2200 \text{ रु.} = 3000 \text{ रु.}$$

सभी फल 100 रुपये में 9 की दर पर बेचे जाते हैं

$$\text{सभी फलों का विक्रय मूल्य} = \frac{100}{9} \times 264 = \frac{8800}{3} \text{ रु.}$$

$$\text{हानि \%} = \frac{\frac{8800}{3}}{3000} \times 100 = \frac{9000 - 8800}{9000} \times 100 = \frac{20}{9} \% = 2\frac{2}{9} \%$$

60. C

Sol. 5 वर्षों के लिए 8% प्रति वर्ष की दर से साधारण ब्याज 3,960 रुपये है।

माना योग = P रु.

$$\text{साधारण ब्याज} = \frac{\text{मूलधन} \times \text{दर} \times \text{समय}}{100}$$

$$\bullet 3960 = \frac{P \times 8 \times 5}{100}$$

$$\bullet P = \frac{396000}{40} = 9900 \text{ रु.}$$

अतः, योग = 9900 रु.

$$\text{अब, उसी राशि पर } 6\frac{2}{3}\% \text{ के लिए } 12\% \text{ वार्षिक की दर से साधारण ब्याज} = \frac{9900 \times 12 \times \frac{20}{3}}{100}$$

$$= 7920 \text{ रु.}$$

61. A

Sol. $36 \div [24 + \{30 - (60 - 60 \div 4 \times 5 \text{ of } 2)\}]$

BODMAS के नियम का प्रयोग करने पर:

- $36 \div [24 + \{30 - (60 - 60 \div 4 \times 10)\}]$
- $36 \div [24 + \{30 - (60 - 15 \times 10)\}]$
- $36 \div [24 + \{30 - (-90)\}]$
- $36 \div [24 + 120]$
- $36 \div [144]$
- $\frac{1}{4}$

62. C

Sol. 92 छात्रों की एक कक्षा में, लड़कों की संख्या का लड़कियों की संख्या से अनुपात 12:11 है।

$$\text{माना लड़कों की संख्या} = 12x$$

$$\text{लड़कियों की संख्या} = 11x$$

- $12x + 11x = 92$
- $23x = 92$
- $x = 4$

$$\text{अतः, लड़कों की संख्या} = 48$$

$$\text{लड़कियों की संख्या} = 44$$

परीक्षा में लड़कियों का औसत अंक लड़कों की तुलना में $33\frac{1}{3}\%$ अधिक है।

$$\bullet 33\frac{1}{3}\% = \frac{1}{3}$$

माना लड़कों के औसत अंक = $3x$

$$\text{लड़कियों के औसत अंक} = 3x + 3x \times \frac{1}{3} = 4x$$

सभी छात्रों के औसत अंक 80 हैं।

प्रश्नानुसार:

$$\bullet \frac{48 \times 3x + 44 \times 4x}{48 + 44} = 80$$

$$\bullet \frac{144x + 176x}{92} = 80$$

$$\bullet 320x = 7360$$

$$\bullet x = 23$$

$$\text{लड़कियों के औसत अंक} = 23 \times 4 = 92$$

63. B

Sol. $\frac{\frac{6.25 + \frac{6}{7}}{3} \text{ का } 21 - 3}{\frac{3}{4} \text{ का } (15.8 - 3.4) + 5 \times 2.39}$

$$\bullet \frac{6.25 + 18 - 3}{\frac{3}{4} \text{ का } (12.4) + 11.95}$$

$$\bullet \frac{6.25 + 15}{9.3 + 11.95} = \frac{21.25}{21.25} = 1$$

64. C

Sol. वह छोटी से छोटी संख्या जो 16, 21, 24 और 28 से पूर्णतः विभाज्य है = LCM (16, 21, 24, 28)

$$16 = 2 \times 2 \times 2 \times 2$$

$$21 = 3 \times 7$$

$$24 = 2 \times 2 \times 2 \times 3$$

$$28 = 2 \times 2 \times 7$$

$$\text{LCM}(16, 21, 24, 28) = 2 \times 2 \times 2 \times 2 \times 3 \times 7 = 336$$

4 अंकों की सबसे बड़ी संख्या = 9999

जब हम 9999 को 336 से विभाजित करते हैं, तो 255 शेष के रूप में प्राप्त होता है।

× चार अंकों की सबसे बड़ी संख्या है जो 16, 21, 24 और 28 में से प्रत्येक से विभाज्य है।

$$\text{अतः, } x = 9999 - 255 = 9744$$

$$9744 \text{ के अंकों का योग} = 9 + 7 + 4 + 4 = 24$$

65. A

Sol. ट्रेन द्वारा तय की गई दूरी = 108 किमी

माना ट्रेन की वास्तविक गति = x किमी/घंटा

यदि ट्रेन की गति में 18 किमी/घंटा की वृद्धि कर दी जाती है, तो वह समान दूरी को तय करने में 18 मिनट कम समय लेती है।

$$\bullet \frac{108}{x} - \frac{108}{x+18} = \frac{18}{60}$$

$$\bullet (108)(x+18) - 108x = \frac{18}{60}(x)(x+18)$$

$$\bullet 108x + 1944 - 108x = \frac{3}{10}(x^2 + 18x)$$

$$\bullet \frac{19440}{3} = x^2 + 18x$$

$$\bullet x^2 + 18x - 6480 = 0$$

$$\bullet x^2 + 90x - 72x - 6480 = 0$$

$$\bullet x(x+90) - 72(x+90) = 0$$

$$\bullet (x+90)(x-72) = 0$$

$$\bullet x = -90 \text{ तथा } x = 72$$

अतः ट्रेन की वास्तविक गति (किमी/घंटा में) = 72 किमी/घंटा

66. D

Sol. विचार करने पर: 45, 40, 38, 60, 55, 36, 31, 52, 42, 44

आरोही क्रम: 31, 36, 38, 40, 42, 44, 45, 52, 55, 60

पदों की संख्या = 10

यदि पदों की संख्या सम हो तो माध्यिका =

$$\frac{\left(\frac{n}{2}\right)^{th} + \left(\frac{n}{2} + 1\right)^{th}}{2} = \frac{\left(\frac{10}{2}\right)^{th} + \left(\frac{10}{2} + 1\right)^{th}}{2} = \frac{5^{th} + 6^{th}}{2} = \frac{42 + 44}{2} = 43$$

$$\text{श्रेणी} = 60 - 31 = 29$$

$$\text{माध्यिका का माध्य और आँकड़ों की श्रेणी} = \frac{43+29}{2} = \frac{72}{2} = 36$$

67. C

Sol. किसी वस्तु का बाजार मूल्य = 3,600 रु.

वस्तु का विक्रय मूल्य = 2,448 रु.

एक बिक्री के दौरान इस पर $x\%$ और 15% की दो क्रमिक छूट दी जाती हैं।

$$\bullet 3600 \times \frac{(100-x)}{100} \times \frac{(100-15)}{100} = 2448$$

$$\bullet (100 - x) = \frac{244800}{36 \times 85}$$

$$\bullet (100 - x) = 80$$

$$\bullet x = 100 - 80 = 20$$

68. A

Sol. किसी वस्तु का विक्रय मूल्य = 270 रु.

लाभ% = 20%

$$\text{वस्तु का लागत मूल्य} = 270 \times \frac{(100)}{120} = \text{Rs.} 225$$

लेकिन यदि विक्रय मूल्य 210 रु. है

तब हानि = 225 रु. – 210 रु. = 15 रु.

$$\text{हानि \%} = \frac{15}{225} \times 100 = 6\frac{2}{3}\%$$

69. B

Sol. कार्य को पूरा करने में A द्वारा लिए गए दिनों की संख्या = 12 दिन

B द्वारा कार्य पूरा करने में लिए गए दिनों की संख्या = 20 दिन

माना कुल कार्य = LCM (12,20) = 60 इकाई

$$A \text{ की दक्षता} = \frac{60}{12} = 5 \text{ इकाई/दिन}$$

$$B \text{ की दक्षता} = \frac{60}{20} = 3 \text{ इकाई/दिन}$$

$$A \text{ और } B \text{ की एक साथ दक्षता} = 5 + 3 = 8 \text{ इकाई/दिन}$$

दोनों एक साथ केवल 4 दिनों के लिए काम करते हैं।

उनके द्वारा 4 दिनों में काम पूरा किया गया = $4 \times 8 = 32$ इकाई

$$\text{शेष कार्य} = 60 \text{ इकाई} - 32 \text{ इकाई} = 28 \text{ इकाई}$$

C ने शेष कार्य को 14 दिनों में पूरा किया।

$$C \text{ की दक्षता} = \frac{28}{14} = 2 \text{ इकाई/दिन}$$

$$B \text{ और } C \text{ की एक साथ दक्षता} = 3 + 2 = 5 \text{ इकाई/दिन}$$

$$B \text{ और } C \text{ द्वारा कार्य पूरा करने में लिए गए दिनों की संख्या} = \frac{60}{5} = 12 \text{ दिन}$$

70. D

Sol. एक व्यक्ति शांत जल में 10 किमी/घंटा की गति से नाव चला सकता है।

$$\text{धारा की गति} = 1\frac{1}{9} \text{ मी/से.} = \frac{10}{9} \text{ मी/से.} = \frac{10}{9} \times \frac{18}{5} \text{ किमी/घंटा} = 4 \text{ किमी/घंटा}$$

$$\text{धारा के प्रतिकूल व्यक्ति की गति} = 10 - 4 = 6 \text{ किमी/घंटा}$$

$$\text{धारा के प्रतिकूल 72 किमी की दूरी तय करने में उसके द्वारा लिया गया समय (घंटों में)} = \frac{72}{6} = 12 \text{ किमी/घंटा}$$

71. B

Sol. x, y और z का औसत z से 6 अधिक है।

$$\bullet \frac{x+y+z}{3} - 6 = z$$

$$\bullet x + y + z = 3z + 18 \dots\dots\dots(1)$$

x और y का औसत 50 है।

$$\bullet \frac{x+y}{2} = 50$$

$$\bullet x + y = 100 \dots\dots\dots(2)$$

u, z से 6 कम है

$$\bullet u = z - 6 \dots\dots\dots(3)$$

(2) का मान (1) में रखने पर

$$\bullet 100 + z = 3z + 18$$

$$\bullet 2z = 82$$

$$\bullet z = 41$$

(3) से

$$\bullet u = 41 - 6 = 35$$

$$u \text{ और } z \text{ का औसत} = \frac{41+35}{2} = \frac{76}{2} = 38$$

72. B

Sol. पुस्तकालय में गणित की 144 और रसायन विज्ञान की 100 पुस्तकें हैं।

माना भौतिकी की पुस्तकों की संख्या = x

गणित की पुस्तकों की संख्या का भौतिकी की पुस्तकों से अनुपात, भौतिकी की पुस्तकों की संख्या का रसायन विज्ञान की पुस्तकों की संख्या से अनुपात के समान है।

$$\bullet \frac{144}{x} = \frac{x}{100}$$

$$\bullet x^2 = 14400$$

$$\bullet x = \sqrt{14400} = 120$$

अतः, भौतिकी की पुस्तकों की संख्या = 120

गणित और भौतिकी की पुस्तकों की कुल संख्या का रसायन और भौतिकी की पुस्तकों की कुल संख्या से अनुपात = $\frac{144+120}{120+100} = \frac{264}{220} = \frac{6}{5}$

73. A

Sol. जब 55, 50, 23 और 22 में से प्रत्येक से x घटाया जाता है, तो इस क्रम में प्राप्त संख्याएँ समानुपाती होती हैं।

$$\bullet (55-x), (50-x), (23-x) \text{ and } (22-x) \text{ संख्याएँ समानुपाती हैं}$$

$$\bullet (55 - x)(22 - x) = (50 - x)(23 - x)$$

$$\bullet 1210 - 55x - 22x + x^2 = 1150 - 50x - 23x + x^2$$

$$\bullet -77x + 1210 = -73x + 1150$$

$$\bullet 4x = 60$$

$$\bullet x = 15$$

माना 3, 7 और 15 का चतुर्थानुपाती y है।

$$\bullet 3 : 7 :: 15 : y$$

$$\bullet 3y = 105$$

$$\bullet y = 35$$

अतः, 3, 7 और 15 का चतुर्थानुपाती 35 है।

74. C

Sol. एक राशि 2 वर्षों में 11,616 रुपये और 3 वर्षों में 12,777.60 रुपये हो जाती है, जब ब्याज वार्षिक रूप से संयोजित होता है।

तीसरे वर्ष के लिए राशि = 11616 रु.

तीसरे वर्ष के बाद की राशि = 12177.60 रु.

$$\text{राशि} = P \left(1 + \frac{\text{दर}}{100}\right)^{\text{समय}}$$

$$\bullet 12777.60 = 11616 \left(1 + \frac{R}{100}\right)$$

$$\bullet 1 + \frac{R}{100} = \frac{12777.60}{11616} = \frac{11}{10}$$

$$\bullet \frac{R}{100} = \frac{11}{10} - 1 = \frac{1}{10}$$

$$\bullet R = 10\%$$

अतः, ब्याज की दर = 10%

2 साल में कुल राशि 11,616 रुपये।

माना योग = P रु.

$$\bullet 11616 = P \left(1 + \frac{10}{100}\right)^2$$

$$\bullet 11616 = P \left(\frac{11}{10}\right)^2$$

$$\bullet P = 11616 \times \frac{10}{11} \times \frac{10}{11} = 9600$$

अतः, योग = 9600 रु.

75. C

$$\text{Sol. } \frac{4}{9} \div \left(\frac{3}{5} - \frac{1}{2}\right) \times \frac{9}{25} - \left(\frac{2}{3} \div \frac{3}{4} \text{ का } \frac{5}{3}\right) + \left(5\frac{1}{4} \div \frac{3}{7} \text{ का } \frac{1}{4} \times \frac{3}{35}\right)$$

$$\bullet \frac{4}{9} \div \left(\frac{3}{5} - \frac{1}{2}\right) \times \frac{9}{25} - \left(\frac{2}{3} \div \frac{3}{4} \text{ का } \frac{5}{3}\right) + \left(\frac{21}{4} \div \frac{3}{7} \text{ का } \frac{1}{4} \times \frac{3}{35}\right)$$

BODMAS नियम का प्रयोग करने पर:

$$\bullet \frac{4}{9} \div \left(\frac{3}{5} - \frac{1}{2}\right) \times \frac{9}{25} - \left(\frac{2}{3} \div \frac{15}{12}\right) + \left(\frac{21}{4} \div \frac{3}{28} \times \frac{3}{35}\right)$$

$$\bullet \frac{4}{9} \div \left(\frac{1}{10}\right) \times \frac{9}{25} - \left(\frac{24}{45}\right) + \left(49 \times \frac{3}{35}\right)$$

$$\bullet \frac{4}{9} \div \left(\frac{1}{10}\right) \times \frac{9}{25} - \left(\frac{24}{45}\right) + \left(\frac{21}{5}\right)$$

$$\bullet \frac{4}{9} \times 10 \times \frac{9}{25} - \frac{24}{45} + \frac{21}{5}$$

$$\bullet \frac{8}{5} - \frac{8}{15} + \frac{21}{5}$$

$$\bullet \frac{24-8+63}{15} = \frac{79}{15} = 5\frac{4}{15}$$

76. A

Sol. • सूफी परंपराओं के संदर्भ में 'समा (Sama)' शब्द का अर्थ सस्वर पाठ है।

- इसमें अक्सर गायन, वादन, नृत्य, कविता पाठ और प्रार्थना, प्रतीकात्मक पोशाक पहनना और अन्य अनुष्ठान शामिल होते हैं।
- सूफीवाद इस्लाम के भीतर धार्मिक अभ्यास का एक रहस्यवादी निकाय है जो इस्लामी आध्यात्मिकता, कर्मकांड, तप और गुद्धता पर ध्यान केंद्रित करता है।
- इसका उद्देश्य बिना किसी मध्यस्थ के मानव जाति की ईश्वर के प्रति प्रत्यक्ष धारणा का पालन करना है।
- इसे विभिन्न रूप से इस्लामी रहस्यवाद के रूप में परिभाषित किया गया है।
- शिष्य धार्मिक या अन्य किसी नेता या आंदोलन का सक्रिय अनुयायी होता है।

77. A

Sol. • उत्तराखण्ड की संस्कृति के सन्दर्भ में काफुली व्यंजन (cuisine) का नाम है।

- यह एक गाढ़ी ग्रेवी है जो हरी पत्तेदार सब्जियों से बनाई जाती है।
- यह उन लोगों के लिए आदर्श व्यंजन है जो आहार के प्रति सचेत हैं क्योंकि यह स्वादिष्ट होने के साथ-साथ पौष्टिक भी है।
- यह एक लोकप्रिय और सबसे ज्यादा पसंद की जाने वाली पहाड़ी डिश है जो सभी आयु वर्ग के लोगों द्वारा पसंद की जाती है।
- उत्तराखण्ड हिमालय, पवित्र नदियों, आध्यात्मिक केंद्रों और मंत्रमुग्ध कर देने वाले परिदृश्यों के लिए जाना जाता है।
- यह भारत के सर्वश्रेष्ठ ट्रेकिंग स्थलों में से एक है।

78. D

Sol. • सूर्य सेन को 'मास्टर दा' के नाम से जाना जाता था।

- वह भारत में ब्रिटिश शासन के खिलाफ भारतीय स्वतंत्रता आंदोलन में प्रभावशाली थे।

- उन्हें 1930 के चटगांव शस्त्रागार छापे का नेतृत्व करने के लिए जाना जाता है।
- बटुकेश्वर दत्त हिंदुस्तान सोशलिस्ट रिपब्लिकन एसोसिएशन के सदस्य भी थे।
- राम प्रसाद बिस्मिल एक स्वतंत्रता सेनानी थे जिन्होंने भारत के स्वतंत्रता संग्राम में सक्रिय भूमिका निभाई।
- अशफाकउल्ला खान हिंदुस्तान सोशलिस्ट रिपब्लिकन एसोसिएशन के सह-संस्थापक थे।

79. D

Sol. • गुजरात के गिर वन क्षेत्र में एशियाई शेरों की संख्या जून 2020 में हर पांच साल में की जाने वाली शेरों की जनगणना के अनुसार बढ़कर 674 हो गई है।

- एशियाई शेर एक पैथेरा लियो आबादी है जो आज केवल भारत में जीवित है।
- इसे भारतीय शेर और फारसी शेर के रूप में भी जाना जाता था।
- इसकी सीमा भारतीय राज्य गुजरात में गिर राष्ट्रीय उद्यान और आसपास के क्षेत्रों तक सीमित है।
- एशियाई शेरों का निवास स्थान सूखी झाड़ीदार भूमि और खुले पर्णपाती जंगल हैं।
- गुजरात क्षेत्रफल के हिसाब से भारत का पांचवा सबसे बड़ा और जनसंख्या के हिसाब से नौवां सबसे बड़ा राज्य है।

80. B

Sol. • सुशील कुमार ने 2012 लंदन ओलंपिक में रजत पदक जीता था।

- उन्होंने 2012 के लंदन ओलंपिक के उद्घाटन समारोह में भारतीय ध्वज फहराया।
- 2012 के ग्रीष्मकालीन ओलंपिक 27 जुलाई से 12 अगस्त 2012 तक लंदन, यूनाइटेड किंगडम में आयोजित एक अंतरराष्ट्रीय बहु-खेल आयोजन थे।
- वह ओलंपिक पदक जीतने वाली पहली भारतीय बैडमिंटन खिलाड़ी हैं।
- गगन नारंग ने लंदन में 2012 के ग्रीष्मकालीन ओलंपिक में पुरुषों की 10 मीटर एयर राइफल स्पर्धा में कांस्य पदक जीता।
- एमसी मैरी कॉम छह बार वर्ल्ड एमेच्योर बॉक्सिंग चैंपियनशिप जीतने वाली एकमात्र महिला हैं।

81. C

Sol. • 'माई जर्नी: ट्रांसफॉर्मिंग ड्रीम्स इन एक्शन' नामक पुस्तक एपीजे अब्दुल कलाम की आत्मकथा है।

- यह असाधारण दृढ़ संकल्प, साहस, लगन और उत्कृष्टता प्राप्त करने की इच्छा की कहानी है।

- एपीजे अब्दुल कलाम एक भारतीय एयरोस्पेस वैज्ञानिक थे और उन्होंने 2002 से 2007 तक भारत के 11वें राष्ट्रपति के रूप में कार्य किया ।
- उन्होंने 2002 से 2004 तक भारत के 7वें उप प्रधानमंत्री के रूप में कार्य किया ।
- अटल बिहारी वाजपेयी पहले भारतीय प्रधानमंत्री थे, जो भारतीय राष्ट्रीय कांग्रेस के नहीं थे, जिन्होंने अपना कार्यकाल पूरा किया ।
- लाल कृष्ण आडवाणी भारतीय जनता पार्टी के सह-संस्थापक और वरिष्ठ नेता हैं ।

82. C

Sol. • गुजरात भैंस की नस्ल है जिसका नाम 'बन्नी' है जो मुख्य रूप से पाला जाता है ।

- बन्नी भैंस को कच्छी या कुंडी के नाम से भी जाना जाता है ।
- यह आमतौर पर कच्छ में पाए जाने वाले स्थानीय समुदाय द्वारा नस्ल और संरक्षित किया जाता है ।
- यह अपने बेहतर जर्मप्लाज्म और दूध उत्पादकता के लिए जाना जाता है ।
- यह चरम मौसम की स्थिति में जीवित रहने के लिए अच्छी तरह से अनुकूलित है ।
- इसे भारतीय नस्ल पंजीकरण समिति द्वारा भारत में भैंस की 11वीं नस्ल के रूप में मान्यता दी गई थी ।
- यह रात में चरने की गुणवत्ता के लिए भी जाना जाता है ।

83. A

Sol. • पारंपरिक रूप से 'तेरह ताली' नाम का लोक नृत्य राजस्थान से जुड़ा हुआ है ।

- यह कमर जनजाति और कुशल कलाकारों द्वारा किया जाता है ।
- यह आमतौर पर दो या तीन महिलाओं द्वारा किया जाता है जो जमीन पर बैठती हैं ।
- कठपुतली, भोपा, चांग, घिंद्र, कच्छीगोरी, तेजाजी आदि कुछ अन्य लोक नृत्य हैं ।
- राजस्थान क्षेत्रफल के हिसाब से भारत का सबसे बड़ा और जनसंख्या के हिसाब से सातवां सबसे बड़ा राज्य है ।
- यह घरेलू और अंतरराष्ट्रीय दोनों पर्यटकों के लिए भारत में सबसे लोकप्रिय पर्यटन स्थलों में से एक है ।

84. B

Sol. • वारही नदी कर्नाटक में कुंचिकल जलप्रपात बनाती है ।

- इसे अनुप्रवाही क्षेत्रों में हलदी नदी के नाम से भी जाना जाता है ।

- यह हलदी, बसरूर, कुंडापुरा और गंगोली जैसे स्थानों से बहने के बाद अरब सागर में मिल जाती है।
- कुंचिकल जलप्रपात भारत का सबसे ऊँचा जलप्रपात है और एशिया का दूसरा सबसे ऊँचा जलप्रपात भी है।
- मंडोवी नदी को भारतीय राज्य गोवा की जीवन रेखा के रूप में वर्णित किया गया है और इसे महादेवी या महादेवी नदी के नाम से भी जाना जाता है।
- काबिनी नदी दक्षिण भारत में कावेरी नदी की प्रमुख सहायक नदियों में से एक है।

85. C

Sol. ● तथाकथित 'मधेट रोग' के लिए पारा विषाक्तता जिम्मेदार है।

- पारा के संपर्क में आने के कारण पारा विषाक्तता एक प्रकार का धातु विषाक्तता है।
- इसके परिणामस्वरूप मृत्यु, मानसिक मंदता, डिसरथिरया, अंधापन, तंत्रिका संबंधी कमी, सुनने की हानि, विकासात्मक दोष हो सकते हैं।
- विटामिन डी की कमी सबसे अधिक सूर्य के प्रकाश के संपर्क में न आने के कारण होती है।
- यह आहार की कमी, खराब अवशोषण, या अधिक मात्रा में चयापचय की आवश्यकता के कारण भी हो सकता है।

86. D

Sol. ● कर्नाटक में 31 जुलाई 2020 तक राज्य विधायिका में एक उच्च सदन था।

- कर्नाटक विधान परिषद कर्नाटक राज्य की द्विसदनीय विधायिका का ऊपरी सदन है।
- यह एक स्थायी निकाय है जिसमें 75 सदस्य होते हैं।
- कर्नाटक एकमात्र दक्षिणी राज्य है जिसकी अन्य सभी 4 दक्षिणी भारतीय बहन राज्यों के साथ सीमाएँ हैं।
- यह जनसंख्या के हिसाब से आठवां सबसे बड़ा राज्य है और क्षेत्रफल के हिसाब से छठा सबसे बड़ा भारतीय राज्य है।
- यह अपनी सदियों पुरानी संस्कृति, परंपराओं और विरासत के लिए लोकप्रिय है।

87. A

Sol. ● रिकेट्स नामक रोग से हड्डियाँ सीधे प्रभावित होती हैं।

- रिकेट्स बच्चों में हड्डियों का नरम और कमजोर होना है।
- यह हड्डियों में दर्द, खराब वृद्धि और नरम, कमजोर हड्डियों का कारण बनता है जिससे हड्डी की विकृति हो सकती है।
- जीभ एक विशिष्ट टेटरापॉड के मुंह में पेशीय अंग है और यह स्वाद का प्राथमिक अंग है।

- प्लीहा पसली के पिंजरे के नीचे आपके पेट के बाई ओर स्थित एक छोटा सा अंग है।
- आंखें दृश्य प्रणाली के अंग हैं और वे प्रकाश का पता लगाते हैं और इसे न्यूरॉन्स में विद्युत-रासायनिक आवेगों में परिवर्तित करते हैं।

88. A

- Sol. • जम्मू और कश्मीर पारंपरिक रूप से दही आधारित ग्रेवी डिश के साथ जुड़ा हुआ है जिसे 'यखनी (Yakhni)' कहा जाता है।
- यखनी दक्षिण एशिया से लेकर बाल्कन तक एक विशाल क्षेत्र में तैयार किए गए व्यंजनों का एक वर्ग है।
 - यह अक्सर पिलाफ और अन्य शर्बत या सूप सहित कई खाद्य पदार्थों का आधार होता है।
 - जम्मू और कश्मीर अपने कालीन बुनाई, रेशम, शॉल, टोकरी, मिट्टी के बर्तन, तांबे और चांदी के बर्तन, पेपर-माचे और अखरोट की लकड़ी के लिए प्रसिद्ध है।
 - उत्तर प्रदेश भारत में सबसे अधिक आबादी वाला राज्य है और दुनिया में सबसे अधिक आबादी वाला देश उपर्युक्त है।
 - मध्य प्रदेश क्षेत्रफल के हिसाब से दूसरा सबसे बड़ा भारतीय राज्य है और जनसंख्या के हिसाब से पांचवां सबसे बड़ा राज्य है।

89. A

- Sol. • व्हाइट-बेलिड का प्राकृतिक आवास हेरोन हैबड़े पैमाने पर पूर्वोत्तर में वितरित किया जाता है।
- सफेद पेट वाले बगुले को शाही बगुले या महान सफेद बेल वाले बगुले के रूप में भी जाना जाता है।
 - यह ज्यादातर एकान्त होता है और अबाधित नदियों के किनारे या आर्द्धभूमि में होता है।
 - यह ज्यादातर गहरे भूरे रंग का होता है जिसका गला सफेद होता है और इसके नीचे के हिस्से होते हैं।
 - इसे 2007 से आईयूसीएन की लाल सूची में गंभीर रूप से संकटग्रस्त के रूप में सूचीबद्ध किया गया है।
 - दक्कन का पठार दक्षिण भारत में पश्चिमी घाटों और पूर्वी घाटों के बीच एक बड़ा पठार है।

90. C

- Sol. • साक्षी मलिक ने वर्ष 2016 में 58 किग्रा में ओलंपिक पदक जीता था।
- वह ओलंपिक में पदक जीतने वाली पहली भारतीय महिला पहलवान बनीं।
 - 2016 ग्रीष्मकालीन ओलंपिक ब्राजील के रियो डी जनेरियो में 5 से 21 अगस्त 2016 तक आयोजित एक अंतरराष्ट्रीय बहु-खेल आयोजन था।
 - ये दक्षिण अमेरिका में आयोजित होने वाले पहले ओलंपिक खेल थे और पुर्तगाली भाषी देश में आयोजित होने वाले पहले थे।

- यह 2000 के बाद दक्षिणी गोलार्ध में आयोजित होने वाला पहला आयोजन था।
- संयुक्त राज्य अमेरिका सबसे अधिक स्वर्ण पदक और कुल मिलाकर सबसे अधिक पदक जीतकर पदक तालिका में शीर्ष पर है।

91. C

- Sol. • भारतीय अर्थव्यवस्था का कंप्यूटर सॉफ्टवेयर और हार्डवेयर क्षेत्र 2019-20 के दौरान भारत में प्रत्यक्ष विदेशी निवेश का दूसरा सबसे बड़ा प्राप्तकर्ता था।
- भारतीय अर्थव्यवस्था का सेवा क्षेत्र 2019-20 के दौरान भारत में प्रत्यक्ष विदेशी निवेश का सबसे बड़ा प्राप्तकर्ता था।

- विश्व निवेश रिपोर्ट 2020 के अनुसार 2019 में भारत एफडीआई का 9वां सबसे बड़ा प्राप्तकर्ता था।
- भारत विश्व की शीर्ष 20 मेजबान अर्थव्यवस्थाओं में 12वें स्थान पर है।
- सेवा क्षेत्र में अंतिम उत्पादों के बजाय सेवाओं का उत्पादन शामिल है।

92. B

- Sol. • भारत के संविधान के अनुच्छेद 246 में कहा गया है कि संसद के पास संघ सूची में उल्लिखित किसी भी मामले के संबंध में कानून बनाने की विशेष शक्तियाँ हैं।

- इसने संघ और राज्य की शक्तियों को उनकी शक्तियों को 3 सूचियों अर्थात् संघ सूची, राज्य सूची और समवर्ती सूची में वर्गीकृत करके सीमांकित किया है।
- भारत के संविधान का अनुच्छेद 287 बिजली पर करों से छूट से संबंधित है।
- भारत के संविधान के अनुच्छेद 362 में भारतीय राज्यों के शासकों के अधिकार और विशेषाधिकार हैं।
- अनुच्छेद 352 आपातकाल की उद्घोषणा से संबंधित है।

93. C

- Sol. • दक्षिणी गोलार्ध में $23\frac{1}{2}^\circ$ मकर रेखा का प्रतिनिधित्व करता है।

- यह अक्षांश का वृत्त है जिसमें दिसंबर में उपसौर बिंदु होता है।
- इस प्रकार यह सबसे दक्षिणी अक्षांश है जहां सूर्य को सीधे ऊपर की ओर देखा जा सकता है।
- उत्तरी गोलार्ध में $23\frac{1}{2}^\circ$ कर्क रेखा का प्रतिनिधित्व करता है।

- यह पृथ्वी पर अक्षांश का सबसे उत्तरी वृत्त है जिस पर सूर्य सीधे ऊपर की ओर हो सकता है।

- दक्षिणी गोलार्ध में $66\frac{1}{2}^\circ$ आर्कटिक वृत्त का प्रतिनिधित्व करता है।

- उत्तरी गोलार्ध में $66\frac{1}{2}^\circ$ अंटार्कटिक वृत्त को दर्शाता है।

94. C

Sol. • रामचंद्र गुहा को अमेरिकन हिस्टोरिकल एसोसिएशन द्वारा 'मानव विदेशी सदस्य पुरस्कार 2019' से सम्मानित किया गया।

- वे आधुनिक भारत के इतिहास पर एक महत्वपूर्ण अधिकार रखते हैं।

- वे न्यू इंडिया फाउंडेशन फेलोशिप प्रोग्राम के ट्रस्टी हैं।

- इरफान हबीब प्राचीन और मध्यकालीन भारत के एक भारतीय इतिहासकार हैं।

- यह हिंदुत्व और मुस्लिम संप्रदायवादियों के खिलाफ अपने मजबूत रुख के लिए जाना जाता है।

- नयनजोत लाहिड़ी को पुरातत्व में काम के लिए जाना जाता है और वह मानविकी में 2013 के इंफोसिस पुरस्कार की विजेता है।

95. B

Sol. • शब्द 'विथी' गुप्त प्रशासन के संदर्भ में एक प्रशासनिक इकाई को संदर्भित करता है।

- गुप्त साम्राज्य एक प्राचीन भारतीय साम्राज्य था जो चौथी शताब्दी सीई की शुरुआत से छठी शताब्दी सीई के अंत तक अस्तित्व में था।

- इस अवधि को इतिहासकारों द्वारा भारत का स्वर्ण युग माना जाता है और इसने भारतीय उपमहाद्वीप के अधिकांश भाग को कवर किया।

- इस अवधि ने वास्तुकला, मूर्तिकला और चित्रकला में उपलब्धियों को जन्म दिया।

- इस अवधि को आम तौर पर सभी प्रमुख धार्मिक समूहों के लिए उत्तर भारतीय कला का एक उत्कृष्ट शिखर माना जाता है।

96. C

Sol. • विकल्पों में उल्लिखित अन्य इकाइयों की तुलना में तेरा सबसे बड़ा है।

- यह मीट्रिक प्रणाली में एक इकाई उपसर्ग है जो एक खरब से गुणन को दर्शाता है।

- हेक्टो मीट्रिक प्रणाली में एक दशमलव इकाई उपसर्ग है जो सौ के गुणनखंड को दर्शाता है।

- डेका मीट्रिक प्रणाली में एक दशमलव इकाई उपसर्ग है जो दस के कारक को दर्शाता है।

- गीगा मीट्रिक प्रणाली में एक इकाई उपसर्ग है जो लघु-स्तरीय बिलियन के कारक को दर्शाता है।

97. B

Sol. • प्लूटो के पास चारोन नाम का एक प्राकृतिक उपग्रह है।

- चारोन बौने ग्रह प्लूटो के पांच ज्ञात प्राकृतिक उपग्रहों में सबसे बड़ा है।
- यह छठी सबसे बड़ी ज्ञात ट्रांस-नेप्च्यूनियन ऑब्जेक्ट है।
- प्लूटो खोजा जाने वाला पहला और सबसे बड़ा कुइपर बेल्ट पिंड था।
- मंगल सूर्य से चौथा ग्रह है और सौरमंडल का दूसरा सबसे छोटा ग्रह है।
- शनि सूर्य से छठा ग्रह है और सौरमंडल में दूसरा सबसे बड़ा ग्रह है।
- हौमिया एक बौना ग्रह है जो नेप्च्यून की कक्षा से परे स्थित है।

98. B

Sol. • भारतीय रिजर्व बैंक का राष्ट्रीयकरण वर्ष 1949 में किया गया था।

- यह भारत का केंद्रीय बैंक और नियामक निकाय है और यह देश की मुख्य भुगतान प्रणालियों का प्रबंधन भी करता है।
- यह भारतीय रूपये के मुद्रे और आपूर्ति और भारतीय बैंकिंग प्रणाली के नियमन के लिए जिम्मेदार है।
- यूनियन बैंक ऑफ इंडिया भारत के सबसे बड़े सरकारी स्वामित्व वाले बैंकों में से एक है और इसकी स्थापना 11 नवंबर 1919 को बॉम्बे में हुई थी।
- सेंट्रल बैंक ऑफ इंडिया भारत के सबसे पुराने और सबसे बड़े राष्ट्रीयकृत वाणिज्यिक बैंकों में से एक है।
- इंपीरियल बैंक ऑफ इंडिया भारतीय उपमहाद्वीप के सबसे पुराने और सबसे बड़े वाणिज्यिक बैंकों में से एक था।

99. B

Sol. • मनु वी देवदेवन मानविकी के लिए इंफोसिस पुरस्कार 2019 के प्राप्तकर्ता थे।

- वह एक भारतीय इतिहासकार हैं जो पूर्व-आधुनिक दक्षिण भारत पर अपने कार्यों के लिए जाने जाते हैं।
- वह वर्तमान में स्कूल ऑफ ह्यूमैनिटीज एंड सोशल साइंसेज, भारतीय प्रौद्योगिकी संस्थान, मंडी में काम करता है।
- इंफोसिस पुरस्कार भारतीय मूल के वैज्ञानिकों, शोधकर्ताओं, इंजीनियरों और सामाजिक वैज्ञानिकों को दिया जाने वाला एक वार्षिक पुरस्कार है।
- यह अनुसंधान को मान्यता देने के लिए भारत में सर्वोच्च मौद्रिक पुरस्कारों में शुमार है।

- पुरस्कार पर्स भारत में विजेताओं के लिए कर-मुक्त है।

100. D

Sol. • निर्मला सीतारमण 31 जुलाई 2020 को कॉर्पोरेट मामलों की भारतीय कैबिनेट मंत्री थीं।

- वह भारत के वित्त और कॉर्पोरेट मामलों के वर्तमान मंत्री के रूप में कार्य करती हैं।
- वह दूसरी महिला वित्त मंत्री और पहली पूर्णकालिक महिला वित्त मंत्री बनीं।
- प्रल्हाद जोशी भारत के वर्तमान केंद्रीय संसदीय कार्य, कोयला और खान मंत्री हैं।
- गजेंद्र सिंह शेखावत वर्तमान में जल शक्ति मंत्रालय में केंद्रीय कैबिनेट मंत्री के रूप में कार्यरत हैं।
- महेन्द्र नाथ पांडेय वर्तमान में भारी उद्योग मंत्री के रूप में कार्यरत हैं।