



SSC MTS 2020 Tier I : 26

October S1

Mock Test Questions & Solutions

Mock Test Solutions in English

Questions

1. Select the most appropriate words to fill in the blank.

The pen I _____ five years ago is still writing well.

2. Select the most appropriate word which means the same as the group of words given.

Force someone through fear to do or not to do something

- A. Intimidate
 - B. Control
 - C. Subjugate
 - D. Murder

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

Play safe

- A. Avoid risks and take precautions
 - B. Do something following rules
 - C. Play a game steadily
 - D. Play a game without getting hurt

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

Feel the pinch

- A. Maintain total silence
 - B. Be in an agitated state of mind
 - C. Listen carefully
 - D. Face financial difficulties

- 5. Choose the correctly spelt word.**

- | | |
|--------------|-------------|
| A. Readiater | B. Radieter |
| C. Redieter | D. Radiator |

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

Anshima was too exhausted to continue the race.

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

One of the rooms in the new house had not yet been completed.

- A. is not yet been completed B. are not yet been completed
C. has not yet been D. have not yet been

8. The given sentence contains a grammatical error. Identify the segment that contains the error.

While he was running along the garden path, he has tripped over a big stone.

- A. While he was running B. long the garden path
C. he has tripped D. over a big stone

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

The development of solar energy is of _____ interest, as it is a possible substitute for oil.

- A. compound B. usual
C. global D. simple

10. Select the most appropriate word which means the same as the group of words given.

A shortage of vitamins, minerals, etc. needed for good health

- A. Deficiency B. Nutrition
C. Defect D. Disease

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

BARRIER

- A. Advocate B. Obstacle
C. Hindrance D. Opening

12. 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'.

Anant went to the park every evening to exercise at his friends.

- A. in exercising between B. to exercise with
C. No substitution required D. on exercise along

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

CLEAR

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- A. Shut
- B. Close
- C. Find
- D. Search

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.

The mobile phone that you have may be called “the little computer”. Do you know why? It has been claimed that it is thousands of times more powerful (1)_____ the computers that powered NASA’s moon missions in the 1960s. Thus, the present-day smart phones are much (2)_____ but more powerful than the computers of about sixty years ago. Now a standard smart phone has (3)_____ replaced computers for many households because many internet services are now (4)_____ on the smart phone. In its early years, mobile internet was (5)_____ used only for email. Moreover, monthly data use per subscriber had risen from 2.7 GB in 2016 to 10.4 GB in 2019, but data prices had fallen from ₹152 per GB to a mere ten rupees during the same period.

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

- A. for
- B. than
- C. from
- D. then

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

- A. harder
- B. sharper
- C. smaller
- D. bigger

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

- A. effectively
- B. faithfully
- C. productively
- D. predictably

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

- A. unavailable
- B. accessible
- C. inaccessible
- D. expensive

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

- A. efficiently
- B. primarily
- C. importantly
- D. secondarily

26. **Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide**

which of the conclusions logically follow(s) from the statements.

Statements:

All Tools are Hardware.

All Hardware is Metallic.

Conclusions:

I. All Metallic are Tools.

II. All Tools are Metallic.

A. Both conclusions I and II follow.

B. Only conclusion I follows.

C. Only conclusion II follows.

D. Neither conclusion I nor II follows

27. **Select the number-pair in which the numbers are related in the same way as are in the given pair.**

10.3 : 0.0103

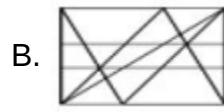
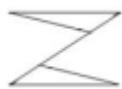
A. 2.80 : 0.0280

B. 020 : 0.002

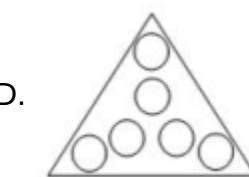
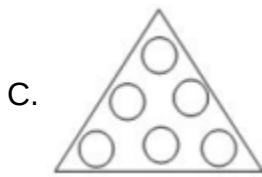
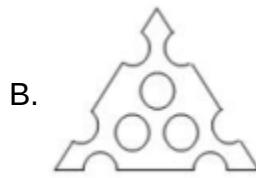
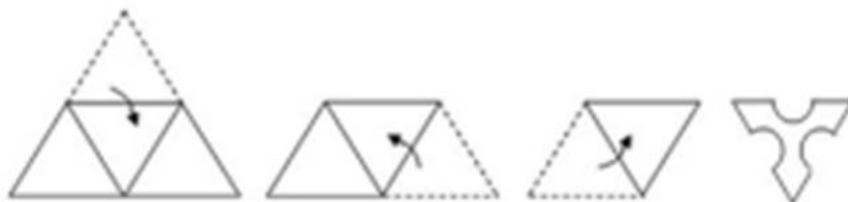
C. 2.80 : 0.00280

D. 020 : 0.20

28. **Identify the option in which the following figure is embedded (rotation is NOT applicable).**



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



30. Select the option in which the numbers are related in the same way as are the numbers of the following set.

(132, 126, 117)

- A. (122, 117, 19) B. (118, 111, 102)
C. (124, 117, 108) D. (138, 132, 125)

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

USQ, NLJ, GEC, ?

- A. ZXV B. ZWT
C. AYW D. YWU

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

6, 12, 9, 36, 31, 186, ?

- A. 190 B. 208
C. 211 D. 179

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

related to the first word.

Right : Correct :: Peak : ?

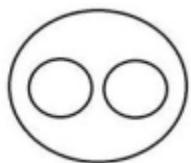
- A. Hill
- B. Valley
- C. Tall
- D. Top

34. Select the correct sequence of mathematical signs to sequentially replace the * signs so as to balance the given equation.

$$46 * 12 * 32 * 8 * (96 * 23) = 437$$

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

35. In the Venn diagram shown below, the relationship between which options is correctly represented?

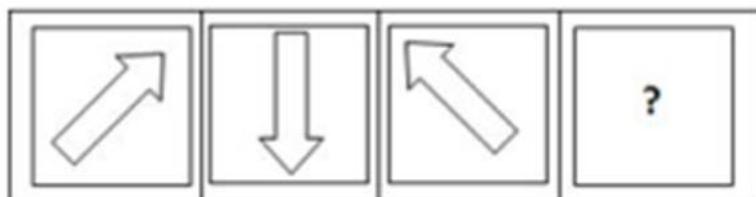


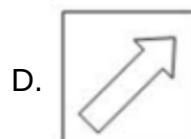
- A. Carrots, Food, Dressing Table
- B. Polygons, Quadrilateral, Circles
- C. Furniture, Chairs, Tables
- D. Birds, Dogs, Peacocks

36. In a certain code language, if DOUBLE is written as FRYGRL, then how will METHYL be written in the same code language?

- A. GRXFQJ
- B. OHXMES
- C. GRXEOH
- D. FQYFRK

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





38. Select the correct alternative to indicate the sequential order of the following names (geographical location).

1. Maharashtra

2. Rajasthan

3. Karnataka

4. Gujarat

5. Kerala

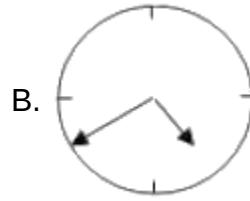
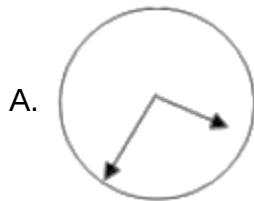
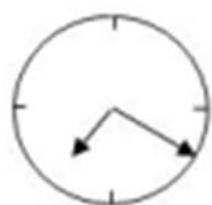
A. 5-1-3-4-2

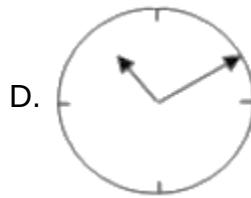
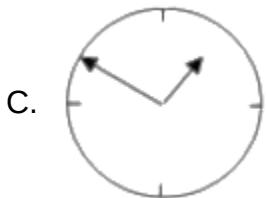
B. 5-3-1-4-2

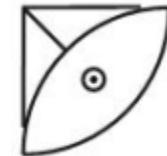
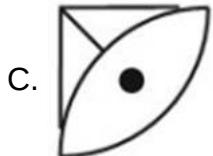
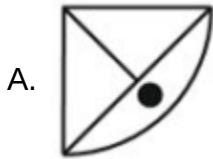
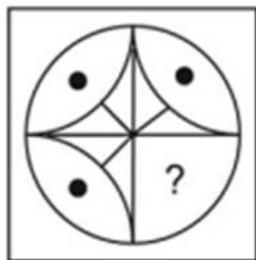
C. 4-1-2-5-3

D. 3-5-4-1-2

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







CUSTOMER : YQWXKIIIV :: COMMERCIAL : ?

- A. YKQQANGMWH B. GSQQIVGMEP
C. YKIJANYEWH D. GSIIEREWEP

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

23, 19, 17, 13, ?

- A. 11 B. 5
C. 7 D. 9

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

Statements:

No Book is a Stone.

Some Stones are Soft.

Conclusions:

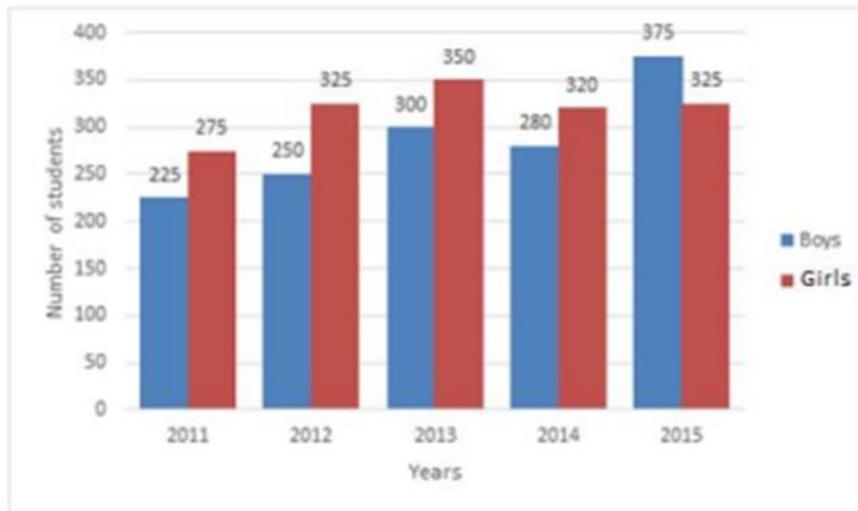
- I. No Book is Soft.
II. Some Books are Soft.
A. Only conclusion I follows. B. Both conclusions I and II follow.
C. Neither conclusion I nor II follows. D. Only conclusion II follows.

46. In a certain code language, if GLADIATOR is written as TROLIGDAA, then how will SKILLFUL be written in the same code language?

- A. ULLFILSK B. LUFLLIKS
C. USLLLKIF D. FIKLLLSU
47. 'Hectare' is related to 'Area' in the same way as 'Pascal' is related to '_____'.
A. Capacity B. Temperature
C. Pressure D. Energy

$$72 \div 36 + 12 \times 13 - 48 = 63$$

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



What is the ratio of the total number of boys who appeared for the Class X examination in 2012 and 2013 to that of girls who appeared in 2012 and 2015?

58. There are three positive numbers. If the average of any two of them is added to the third number, the resulting sums are 154, 148 and 132. The average of the original three numbers is:
- A. $75\frac{1}{3}$ B. $72\frac{1}{3}$
C. $70\frac{1}{3}$ D. $76\frac{1}{3}$
59. 'A' can complete a work in 15 days and 'B' can complete the same work in 20 days. Working together, in how many days, will they complete 35% of the same work?
- A. 5 B. 3
C. 6 D. 7
60. If the variance of 5 values is 0.81, then what is its standard deviation?
- A. 0.09 B. 0.9
C. 2.7 D. 0.27
61. The ratio of the speeds of two trains is 5: 8. If the second train runs 400 km in 4 hours, then the speed of the first train (in km/h) is:
- A. 37 B. 62.5
C. 12.5 D. 25
62. The marked price of an article is Rs.4,450. If a person earns a profit of 15% after allowing a discount of 15%, then the cost price (in Rs.) (correct to the nearest integer) of the article is:
- A. 3,289 B. 3,378
C. 3,189 D. 3,498
- 63.
- What is the simplified value of $\left[\left\{ \left(3 - \frac{2}{1 + \frac{1}{4 + \frac{2}{3}}} \right) \text{ of } 1\frac{13}{21} \div 3\frac{2}{7} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$?
- A. 1 B. 2
C. $\frac{1}{5}$ D. $\frac{3}{10}$
64. If the HCF of two numbers is 12 and LCM of the same two numbers is 48, then the square root of the product of these numbers is:
- A. 16 B. 24

- C. 48 D. 12

65. The ratio of boys and girls in a school is 35 : 39. If the average of boys and girls in the school is 740, then the number of girls in the school is:
A. 780 B. 740
C. 700 D. 720

66. The value of $500 \div \frac{3}{8}$ of $\frac{2}{3} \div \left[\frac{5}{3} \text{ of } 300 + 7\frac{1}{2} \div 5\frac{1}{2} \times 1100 \right]$ is:
A. 5 B. 10
C. 4 D. 1

67. When an article is sold for 388, there is a loss of 3%. What is the selling price (in) of the article, if it is sold at a gain of 8%?
A. 412 B. 444
C. 432 D. 460

68. If the radius of a circle is increased by 19%, then by what percentage will its area increase?
A. 27.89% B. 32.85%
C. 11.91% D. 41.61%

69. When x is subtracted from each of 21, 22, 60 and 64, the numbers so obtained in this order, are in proportion, what is the mean proportional between $(x - 2)$ and $(2x + 8)$?
A. 16 B. 12
C. 10 D. 14

70. In a constituency, 60% of the voters are males and the rest are females. 40% of the males are illiterates and 25% of females are literates. By what percentage is the number of literate males more than that of illiterate females?
A. 20% B. 17.5%
C. 25% D. 22.5%

71. If the annual rate of simple interest increased from 8% to $12\frac{1}{2}\%$, a person's yearly income increased by Rs.459. The principal amount (in Rs.) is:
A. 8,200 B. 12,500
C. 10,200 D. 11,250

72. 'A' can complete the 60% of the work in 9 days, while 'B' can complete the work in $7\frac{1}{2}$ days. If they work

together, then in how many days will the work be completed?

- C. Platinum D. Gallium

81. Who among the following is the author of the book 'Imaginary Homelands'?
A. Salman Rushdie B. Khushwant Singh
C. Ruskin Bond D. Arvind Adiga

82. 'Ponu Yoksi', a sword like instrument used during ceremonial dances performed by the priests, belongs to:
A. Himachal Pradesh B. Madhya Pradesh
C. Uttar Pradesh D. Arunachal Pradesh

83. Who among the following was the Chairperson of the Disinvestment Commission, Ministry of Industry (Department of Public Enterprises) established in 1996?
A. Arundhati Roy B. NK Singh
C. Arvind Mehta D. GV Ramakrishna

84. Identify the city which is situated on the banks of the river Sarayu.
A. Ayodhya B. Bhopal
C. Kanpur D. Haridwar

85. 'Balchão' and 'Sorpote' are the traditional culinary dishes of:
A. Karnataka B. Uttarakhand
C. Goa D. Punjab

86. 'Bagurumba' is a _____ of the Bodo Community in Assam.
A. local sport B. folk dance
C. painting style D. ceremonial procession

87. In the Lok Sabha, discussion under which rule of the Constitution of India does not involve a formal motion before the House?
A. Rule 123 B. Rule 193
C. Rule 146 D. Rule 157

88. In which year did India become a signatory to the CITES (Convention on International Trade in Endangered Species on Wild Fauna and Flora)?
A. 1980 B. 1983
C. 1976 D. 1975

89. In which Indian state will you find the river Muhuri?
A. Punjab B. Madhya Pradesh
C. Uttar Pradesh D. Tripura

90. With whom is the 'Patharughat Uprising' associated?
- A. Lawyers' uprising B. Soldiers' uprising
C. Teachers' uprising D. Peasants' uprising
91. Which one of the following is a ruminant animal?
- A. Horse B. Donkey
C. Hen D. Cow
92. Identify the alloy among the following of which lead is a component.
- A. Alnico B. Solder
C. Nickel D. Constantan
93. Who among the following is an ace pistol shooter?
- A. Saurabh Chaudhary B. Pankaj Advani
C. Sandeep Chaudhary D. Amit Panghal
94. Which Indian artist has received the Jackson Pollock Fellowship, instituted by the Pollock Krasner Foundation, for the second time in the year 2019?
- A. Pradeep Puthoor B. Anish Kapoor
C. Neeraj Gupta D. Rupesh Patric
95. Which Indian Prime Minister took a bus journey to Lahore to sign a peace declaration in the year 1999?
- A. Atal Bihari Vajpayee B. IK Gujral
C. PV Narsimha Rao D. HD Deve Gowda
96. Which country among the following is the second largest producer of agricultural products as per February 2019?
- A. China B. France
C. Russia D. India
97. What is India's rank on the World Economic Forum's Global Competitiveness Index of 141 countries for the year 2019?
- A. 68th B. 50th
C. 60th D. 58th
98. Which of the following is used as a preservative?
- A. Magnesium Silicate B. Sodium Palmitate
C. Dipropylene Glycol D. Sodium Chloride
99. Who among the following was the founder of the Suryavamsi Gajapati dynasty that ruled parts of Orissa

and Andhra Pradesh in the 15th century?

- A. Bhanu Deva
- B. Vasu Deva
- C. Surendra Deva
- D. Kapilendra Deva

100. Who is the author of the book 'The End of Imagination'?

- A. Sudha Murty
- B. Arundhati Roy
- C. Kiran Desai
- D. Jhumpa Lahiri

Solutions

1. B

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

- *Have bought* = is the structure of verb (plural helping verb) used in present perfect tense.
- *Bought* = is the second form of the verb used in the simple past tense.
- *Has bought* = is the structure of verb (singular helping verb) used in present perfect tense.
- *Buy* = is the first form of verb used in simple present tense.

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

- “*Have bought*” is the structure of verb (plural helping verb) used in present perfect tense. But filler needs verb used in past tense. Thus, option A is incorrect.
- “*Has bought*” is the structure of verb (singular helping verb) used in present perfect tense. But filler needs verb used in past tense. Thus, option C is incorrect.
- “*Buy*” is the first form of verb used in simple present tense. But filler needs verb used in past tense. Thus, option D is incorrect.
- “*Bought*” is the second form of verb. It is used in simple past tense. Here in the given sentence, the time word “five years ago” necessitates the use of simple past tense in the filler. Thus, “*Bought*” becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

The pen I bought five years ago is still writing well.

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

2. A

Sol. Intimidate: to frighten or threaten someone so that they will do what you want.

Control: to have power over a person, company etc. so that you are able to decide what they must do or how it is run.

Subjugate: to defeat someone/something

Murder: to kill someone deliberately and illegally.

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

3. A

Sol. The idiom “**play safe**” means to be careful; to avoid risks.

Example: **Play safe!** Keep out of the sun in the middle of the day.

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

4. D

Sol. The idiom “**feel the pinch**” means to not have enough money.

Example: Lots of people who have lost their job during the lockdown are starting to **feel the pinch**.

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

5. D

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

“Radiator” is the correct spelling. It means a hollow metal device for heating rooms.

6. B

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

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

7. C

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

- The underlined part needs correction in helping verb and tense.
- After the structure “one of + plural subject”, we use a singular verb.

For example:

One of the most important political freedoms **is** freedom of association.

• The present perfect tense is used when at the time of speaking the action is already complete in the past. It shows the connection with the present time via action that happened in the past. Usually, following adverbs and conjunctions are used to express the preceding action: “yet”, “already”, “just” etc.

For example:

We **have just completed** our assignment.

I **haven't received** a letter from her **yet**.

• In the underlined part of the given sentence, the use of the word “yet” necessitates the use of the present perfect tense in the underlined part. But we have erroneously used the past

perfect tense. Thus, the present perfect tense should be used.

- Also, after a subject with “one of” uses a singular helping verb. Thus, the singular helping verb “has” should be used.
- Hence, “**has not yet been**” is the correct substitution.

Thus, the correct sentence will be:

One of the rooms in the new house has not yet been completed.

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

8. C

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

- When we use the past continuous and the simple past tense together, it shows us that the past simple action happened in the middle of the past continuous action, while it was in progress.

For example:

I **was walking** when I **saw** the UFO.

Manish **was washing** his hair when the doorbell **rang**.

- The given sentence is set in the past tense. But we have erroneously used the present perfect tense “has tripped”.

Also, one action i.e. “running” is happening for a longer duration whereas the other action i.e. “tripped” is happening for a shorter duration. Thus, the simple past tense i.e. “tripped” should be used in action that is complete and happens for shorter duration.

- Hence, “**he tripped**” is the correct substitution.

Thus, the correct sentence will be:

While he was running along the garden path, he tripped over a big stone.

9. C

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

- *Compound* = (adjective) formed of two or more parts.
- *Usual* = (adjective) something that happens or is done most of the time or in most cases
- *Global* = (adjective) covering or affecting the whole world.

- *Simple* = (adjective) something that is not complicated.

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

- "*Compound*" as an adjective refers to something that is formed of two or more parts. Thus, option A is incorrect.
- "*Usual*" as an adjective means something that happens or is done most of the time or in most cases. Thus, option B is incorrect.
- "*Simple*" as an adjective means something that is not complicated. Thus, option D is incorrect.
- "*Global*" as an adjective means covering or affecting the whole world. Here in the given sentence, it is used to qualify the noun "interest". It means development of solar energy covers the interest of whole world.

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

Thus, the correct sentence will be:

The development of solar energy is of global interest, as it is a possible substitute for oil.

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

10. A

Sol. Deficiency: the state of not having or not having enough of something that is essential.

Nutrition: the process by which living things receive the food necessary for them to grow and be healthy.

Defect: to leave a political party, country etc. to join another that is considered to be an enemy.

Disease: an illness affecting humans, animals or plants often caused by infection.

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

11. D

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

Barrier= an object like a fence that prevents people from moving forward from one place to another.

E.g.: The crowd had to stand behind **barriers**.

Advocate = to support someone publicly.

Obstacle = a situation that makes it difficult for you to do something.

Hindrance = a person or thing that makes it more difficult for someone to do something.

Opening = a space or hole that someone/something can pass through

E.g.: We could see the stars through an **opening** in the roof.

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

12. B

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

- Underlined part needs correction in preposition.
- “At” as a preposition is used to show when something happens.

For example:

In the morning I leave my house **at** eight o'clock.

- “With” as a preposition is used to show “in the company or presence of someone/something”.

For example:

I have a client **with** me right now.

He lives **with** his parents in New Delhi.

- In the given sentence, “Anant” used to go to park “in the company of his friends” to exercise.

This sense is reflected in the use of preposition “with”. The use of preposition “at” does not conform to the meaning reflected in the given sentence. Thus, the preposition “with” should be used in place of preposition “at”.

- Hence, **“to exercise with”** is the correct substitution.

Thus, the correct sentence will be:

Anant went to the park every evening to exercise with his friends.

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

13. C

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

Clear = when smoke, fog etc. clears, it disappears so that it is easier to see things.

E.g.: The mist will **clear** by mid-morning.

Doubt = to feel uncertain about something.

Open = allowing things or people to go through.

Dim = if a light dims, it becomes or you make it less bright.

E.g.: The lights in the theatre **dimmed** as the curtain rose.

Known = to have information in your mind as a result of experience or because you have learned or been told it.

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

14. B

Sol. **Option B has correctly spelt word.**

“Surround” is the correct spelling. It means to be all around something/someone.

15. A

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

- Comparative adjectives such as junior, senior, prefer (verb), elder etc. are followed by “to” instead of “than”.

- **For example:**

My brother is **elder to** me by 4 years.

He **senior to** his boss in service.

- In the given sentence we have erroneously used “than” after “prefer” to show likeness of “tea” over “coffee”. Thus, preposition “to” should be used in place of “than”.

- Hence, “**tea to coffee**” is the correct substitution.

Thus, the correct sentence will be:

My sister prefers tea to coffee in the afternoon after lunch.

16. B

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

- There are some expressions that we use for something unreal. For example: suppose, wish, if, as if/as though. After these expressions we can use the past subjunctive “were” instead of “was”.

- **For example:**

If I were you, I'd accept the offer.

- In the given sentence, the use of “if” shows that something “unreal” is there. It shows the unreal existence of speaker i.e. “I” in place of “You”. But we have erroneously used helping verb “am” to show this imagination. Thus, the past subjunctive “were” should be used in place of “am”.
- Hence, “**If I were you**” is the correct substitution.

Thus, the correct sentence will be:

If I were you, I wouldn't take the risk of going to the market.

17. C

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

- *Value* = (noun) how much something is worth in money or other goods for which it can be exchanged.
- *Procedure* = (noun) a way of doing something, especially the usual or correct way.
- *Structure* = (noun) the way in which the parts of something are connected together, arranged or organised.
- *Position* = (noun) the place where someone/something is located.

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

- “*Value*” as a noun means “worth of something”. Thus, option A is incorrect.
- “*Procedure*” as a noun means way of doing things. Thus, option B is incorrect.
- “*Position*” as a noun means “location” of something. Thus, option D is incorrect.
- “*Structure*” as a noun means way in which parts of something is arranged or connected.

Here in the given sentence, it is used to mention that arrangement of atoms present inside oxygen is not same as in that of hydrogen.

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

Thus, the correct sentence will be:

The structure of an atom of oxygen is different from that of an atom of hydrogen.

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

18. C

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

Banish= to order someone to leave a place, especially a country, as a punishment.

E.g.: He was **banished** to Spain, where he died five years later.

Paint = to cover a surface or object with paint.

Scrape = to remove something from a surface by moving something sharp and hard like a knife across it.

Exile = to force someone to leave their country, especially for political reasons or as a punishment

E.g.: He was **exiled** to Sweden as a punishment by the court.

Invent = to produce or design something that has not existed before.

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

19. B

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

- *Were being felt* = is the structure of passive verb used in past continuous tense.
- *Are being felt* = is the structure of passive verb (with plural helping verb) used in present continuous tense.
- *Has been felt* = is the structure of passive verb used in present perfect tense.
- *Is being felt* = is the structure of passive verb (with singular helping verb) used in present continuous tense.

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

- “*Were being felt*” is the structure of passive verb used in past continuous tense. But we need verb that is used in present tense. Thus, option A is incorrect.
- “*Has been felt*” is the structure of passive verb (with singular helping verb) used in present perfect tense. But we need a plural helping verb in accordance with plural subject “effects”. Thus, option C is incorrect.
- “*Is being felt*” is the structure of passive verb (with singular helping verb) used in present continuous tense. But we need a plural helping verb in accordance with plural subject “effects”. Thus, option D is incorrect.
- “*Are being felt*” is the structure of passive verb (with plural helping verb) used in the present continuous tense. Here in the given sentence, the plural helping verb “are” is used for the plural subject “effects”. Also, the use of time word “now” necessitates the use of present tense

in the filler. Continuous aspect of action verb is also reflected in the meaning of the sentence i.e. effects of hike in prices is being experienced “now”.

Thus, "Are *being felt*" becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

The effects of the fuel price hike are being felt severely even now.

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

20. C

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

Discover = to be the first person to become aware that a particular place or thing exists.

E.g.: Scientists around the world are working to **discover** a cure for AIDS.

Shut = to close something.

Close = to put something into a position so that it covers an opening.

Find = to discover someone/something unexpectedly or by chance.

E.g.: We have **found** a great new restaurant near the office.

Search = to look carefully for someone/something

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

21. B

Sol. The given passage is about "**Mobile phone and Mobile Internet**".

“For” as a preposition is used to show the reason. Thus, option A is wrong.

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

“Then” as an adverb is used to refer to a particular time in the past or future. Thus, option D is wrong.

“Than” as a conjunction is used to introduce the second part of a comparison. In the given sentence, it is used to introduce the comparison between “mobile phones” and “computers that powered NASA’s moon missions”.

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

22. C

Sol. The given passage is about "**Mobile phone and Mobile Internet**".

“Harder” is the comparative form of adjective “hard”. It means difficult to do, understand or answer. Thus, option A is wrong.

“Sharper” is the comparative form of adjective “sharp”. It means having a fine edge or point, especially of something that can cut or make hole in something. Thus, option B is wrong.

“Bigger” is the comparative form of adjective “big”. It means large in size. Thus, option D is wrong.

“Smaller” is the comparative form of adjective “small”. It means not large in size. In the given sentence, it is used to compare the size of “smart phones” and “computers”. It mentions that the size of smart phones that are available today are much smaller (i.e. not large) than those computers that were available sixty years ago.

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

23. A

Sol. The given passage is about **“Mobile phone and Mobile Internet”**.

“Faithfully” as an adverb means in a way that shows true commitment. Thus, option B is wrong.

“Productively” as an adverb means in a way that does a lot or achieves a lot. Thus, option C is wrong.

“Predictably” as an adverb means in such a way that you know in advance that something will happen or what it will be like. Thus, option D is wrong.

“Effectively” as an adverb means in a way that produces the intended result or a successful result. In the given sentence, it is used to mention the intended result of “replacement of computers by smart phone”.

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

24. B

Sol. The given passage is about **“Mobile phone and Mobile Internet”**.

“Unavailable” as an adjective means something that cannot be obtained. Thus, option A is wrong.

“Inaccessible” as an adjective means difficult or impossible to reach, get or use. Thus, option C is wrong.

“Expensive” as an adjective means costing a lot of money. Thus, option D is wrong.
“Accessible” as an adjective means something that can be reached, entered, used, seen, etc. In the given sentence, it is used to show the easy and affordable use of the internet services on smart phone.
Hence, **option B** is the correct answer.

25. B

Sol. The given passage is about “**Mobile phone and Mobile Internet**”.

“Efficiently” as an adverb means in a good and careful way, with no waste of time, money or energy. Thus, option A is wrong.

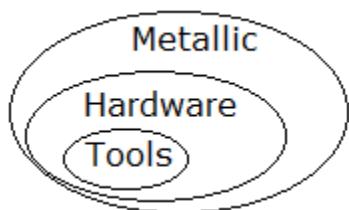
“Importantly” as an adverb is used for saying something is important. Thus, option C is wrong.
“Secondarily” as an adverb means in a way that is less important than something else or happens as a result of something else. Thus, option D is wrong.

“Primarily” as an adverb means “mainly”. In the given sentence, it is used to mention that during the early years of internet over mobile, it was used mainly for the purpose of sending mails via electronic medium.

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

26. C

Sol. The least possible Venn-diagram will be;



Conclusions:

I. All Metallic are Tools – It is not a definite case, hence false.

II. All Tools are Metallic – It is a definite case, hence true.

Thus only II follows.

Hence, option C is the correct answer.

27. C

Sol. The pattern is as follows:

$$10.3 \div 1000 = 0.0103$$

Similarly,

$$2.80 \div 1000 = 0.00280$$

Hence, option C is the correct answer.

28. A

Sol. The given is perfectly embedded in the option figure (A) as shown below;



Hence, option A is the correct answer.

29. B

Sol. On observing the given pattern of unfolding of the sheet we find that it will appear as shown below;



Hence, option B is the correct answer.

30. C

Sol. The logic is that the sum of the digits of the first number, is subtracted from the first number to obtain the second number. Similarly, the sum of the digits of the second number is subtracted from the second number to obtain the third number.

$$132 - 1 - 3 - 2 = 126 \text{ and } 126 - 1 - 2 - 6 = 117$$

Similarly,

$$124 - 1 - 2 - 4 = 117 \text{ and } 117 - 1 - 1 - 7 = 108$$

Hence, option C is the correct answer.

31. A

Sol. The pattern is as follows;

$$U \xrightarrow{-2} S \xrightarrow{-2} Q$$

$$N \xrightarrow{-2} L \xrightarrow{-2} J$$

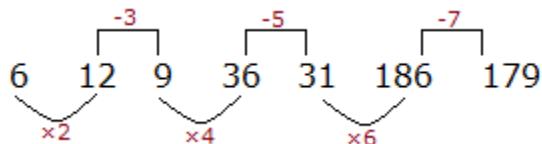
$$G \xrightarrow{-2} E \xrightarrow{-2} C$$

$$Z \xrightarrow{-2} X \xrightarrow{-2} V$$

Hence, option A is the correct answer.

32. D

Sol. The pattern is as follows;



Hence, option D is the correct answer.

33. D

Sol. Here the first and second word are synonyms in similar way 'top' and 'Peak' are synonyms.

Hence, option D is the correct answer.

34. D

Sol. After checking all the options we find that the signs given in option (D) will balance the given equation as;

$$46 \times 12 + 32 \div 8 - (96 + 23) = 437$$

On solving L.H.S we get;

$$\rightarrow 46 \times 12 + 32 \div 8 - (96 + 23)$$

$$\rightarrow 46 \times 12 + 4 - (96 + 23)$$

$$\rightarrow 552 + 4 - (96 + 23)$$

$$\rightarrow 552 + 4 - 119$$

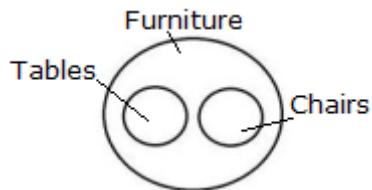
$$\rightarrow 437$$

Thus, L.H.S = R.H.S

Hence, option D is the correct answer.

35. C

Sol. The relationship of the classes given in option (C) that is Furniture, Chairs, Tables, is best represented by the given Venn-diagram as shown below:



Hence, option C is the correct answer.

36. B

Sol. The pattern is as follows;

4	15	21	2	12	5
D	O	U	B	L	E
+2	+3	+4	+5	+6	+7
F	R	Y	G	R	L

6 18 25 7 18 12

Similarly,

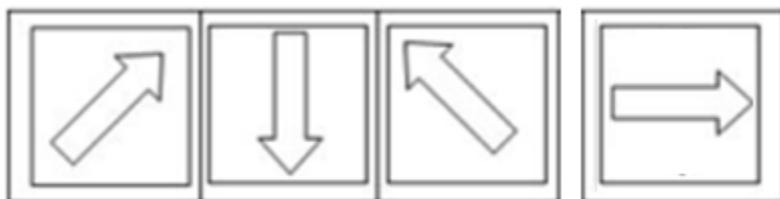
13	5	20	8	25	12
M	E	T	H	Y	L
+2	+3	+4	+5	+6	+7
O	H	X	M	E	S

15 8 24 13 5 19

Hence, option B is the correct answer.

37. B

Sol. Logic: The arrow is rotating 90 degree in clockwise direction. Thus the option figure (B) will complete the series;



Hence, option B is the correct answer.

38. B

Sol. The arrangement of the given states as per their geographical location on India's Map is as follows:

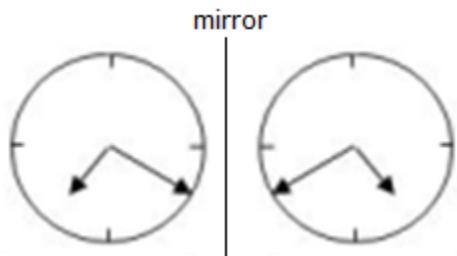
5. Kerala
3. Karnataka

1. Maharashtra
4. Gujarat
2. Rajasthan

Hence, option B is the correct answer.

39. B

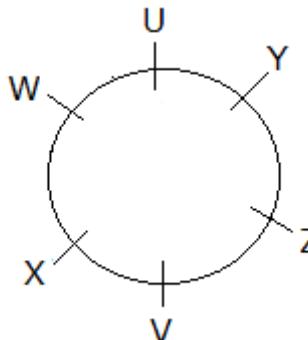
Sol. The correct mirror image will be:



Hence, option B is the correct answer.

40. A

Sol. As per the given information the arrangement will be as follows:

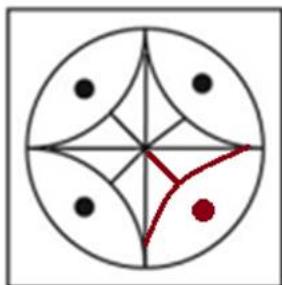


Clearly, Z is sitting to the right of V.

Hence, option A is the correct answer.

41. C

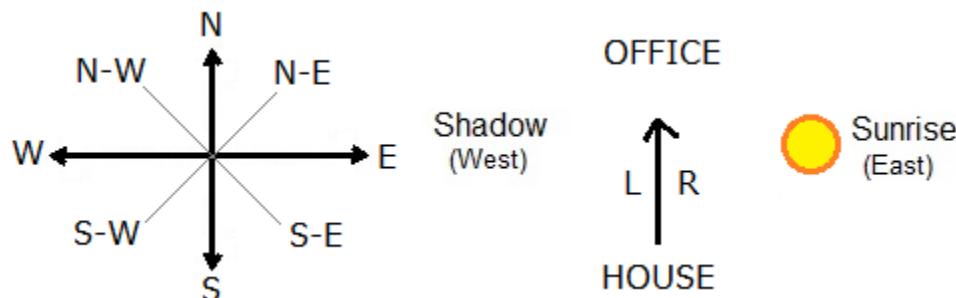
Sol. Clearly, the given pattern is completed by the option figure (C) as shown below:



Hence, option C is the correct answer.

42. C

Sol. As we know that during the sunrise, the shadow of an object will always be towards the west.



Hence, option C is the correct answer.

43. A

Sol. The pattern is as follows:

29	21	19	20	15	13	5	18
C	U	S	T	O	M	E	R
-4	-4	+4	+4	-4	-4	+4	+4
Y	Q	W	X	K	I	I	V
25	17	23	24	11	9	9	22

Similarly,

29	15	13	13	5	18	3	9	27	12
C	O	M	M	E	R	C	I	A	L
-4	-4	+4	+4	-4	-4	+4	+4	-4	-4
Y	K	Q	Q	A	N	G	M	W	H
25	11	17	17	1	14	7	13	23	8

Hence, option A is the correct answer.

44. A

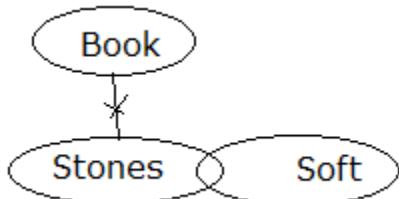
Sol. Here the pattern followed is; (-4, -2, -4, -2)....

So, the missing number will be $(13 - 2) = 11$

Hence, option A is the correct answer.

45. C

Sol. The least possible Venn-diagram will be:



Conclusions:

I. No Book is Soft – It is not a definite case, hence false.

II. Some Books are Soft – It is not a definite case, hence false.

Thus neither I nor II follows.

Hence, option C is the correct answer.

46. C

Sol. Here the letters are arranged in reverse order from left to right as per the Alphabetical order.

GLADIATOR \rightarrow TROLIGDAA

Similarly,

SKILLFUL \rightarrow USLLLKIF

Hence, option C is the correct answer.

47. C

Sol. As ‘Hectare’ is the SI unit of ‘Area’ in similar way, ‘Pascal’ is the SI unit of ‘Pressure’.

Hence, option C is the correct answer.

48. B

Sol. As per the Alphabetical order the opposite letter pairs are as follows:

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

Now,

T - G (7)
I - R (18)
C - X (24)
K - P (16)
B - Y (25)
O - L (12)
X - C (3)

So, $7+18+24+16+25+12+3 = 105$; now add (+1) to the resultant

$$105 + 1 = 106$$

Similarly, RELEASE is coded as 125

Therefore,

P - K(11)
A - Z(26)
C - X(24)
K - P(16)
A - Z(26)
G - T(20)
E - V(22)

So, $11+26+24+16+26+20+22 = 145$; now add (+1) to the resultant

$$145 + 1 = \mathbf{146}$$

Hence, option B is the correct answer.

49. D

Sol. The pattern is as follows:

N	O	T	E	C	A	R	D
$1+4 =$ 5	$1+5 =$ 6	$2+0 =$ 2	5	3	1	$1+8 =$ 9	4

Similarly,

O	P	E	N	M	I	N	D
$1+5 =$ 6	$1+6 =$ 7	5	$1+4 =$ 5	$1+3 =$ 4	9	$1+4 =$ 5	4

Thus,

H	A	R	D	C	O	R	E
8	1	$1+8 =$ 9	4	3	$1+5 =$ 6	$1+8 =$ 9	5

Hence, option D is the correct answer.

50. C

Sol. By checking all the options we find that the equation is balanced by the signs given in option (C);
 $72 + 36 \div 12 \times 13 - 48 = 63$

On solving L.H.S we get;

$$72 + 3 \times 13 - 48$$

$$72 + 39 - 48 \Rightarrow 63$$

So, L.H.S = RH.S

Hence, option C is the correct answer.

51. B

Sol. Let the sum of money be P



$$\text{Total time} = 15 + 15 = 30 \text{ years.}$$

Therefore, in 30 years it will become four times of itself

Hence, option B is correct.

52. A

Sol. Let the length of the rectangle be l and width of the rectangle be b

We know that:

Area of the rectangle = length × breadth

$$= lb$$

$$\text{New length} = (l) \times \frac{(100 + 80)}{100} = (l) \times \frac{180}{100} = \frac{9l}{5}$$

Let new width of the rectangle be y

Now,

$$\left(\frac{9l}{5}\right) \times y = lb$$

$$\Rightarrow y = \frac{5lb}{9l}$$

$$\Rightarrow y = \frac{5b}{9}$$

$$\frac{\left(b - \frac{5b}{9}\right)}{b} \times 100$$

Therefore, required percentage decrease in width to maintain the same area =

$$= \frac{(9b - 5b)}{9b} \times 100$$

$$= \frac{4b}{9b} \times 100$$

$$= 44.44\%$$

Hence, option A is correct.

53. B

Sol. Let the share of P, Q, R and S be $3x$, $4x$, $5x$ and $6x$

According to the question,

$$\Rightarrow 5x - 4x = 500$$

$$\Rightarrow x = 500$$

Therefore, the sum of all their shares = $3x + 4x + 5x + 6x$

$$= (18x)$$

$$= 18 \times 500$$

$$= 9000 \text{ Rs.}$$

Hence, option B is correct.

54. B

Sol. The total number of boys who appeared for the Class X examination in 2012 and 2013 = 250 + 300 = 550

The total number of girls who appeared for the Class X examination in 2012 and 2015 = 325 + 325 = 650

$$\text{Therefore, required ratio} = 550 : 650 = 11 : 13$$

Hence, option B is correct.

55. D

Sol.

$$\text{The average of the number of boys who appeared in 2011, 2013 and 2015} = \frac{225 + 300 + 375}{3}$$
$$= \frac{900}{3} = 300$$

The number of girls who appeared in 2012 = 325

$$\text{Therefore, required percentage} = \frac{(325 - 300)}{325} \times 100 = \frac{25}{325} \times 100 = 7.7\%$$

Hence, option D is correct.

56. D

Sol. The total number of girls who appeared in 2012, 2013 and 2015 = 325 + 350 + 325 = 1000

The total number of boys who appeared in all the five years = 225 + 250 + 300 + 280 + 375 = 1430

$$\text{Therefore, required percentage} = \frac{(1430 - 1000)}{1430} \times 100 = \frac{430}{1430} \times 100 = 30.1\%$$

Hence, option D is correct.

57. B

Sol. Given:

$$\text{Distance} = x \text{ km}$$

$$\text{Speed } S_1 = 5\frac{5}{9} \text{ m/sec} = \frac{50}{9} \times \frac{18}{5} = 20 \text{ km/hr}$$

$$\text{Speed } S_2 = 5 \text{ m/sec} = 5 \times \frac{18}{5} = 18 \text{ km/hr}$$

$$\text{Time} = 7\frac{3}{5} = \frac{38}{5} \text{ hours}$$

We know that:

$$\text{Time} = \frac{\text{distance}}{\text{speed}}$$

According to the question,

$$\Rightarrow \frac{x}{20} + \frac{x}{18} = \frac{38}{5}$$

$$\Rightarrow \frac{9x + 10x}{180} = \frac{38}{5}$$

$$\Rightarrow \frac{19x}{180} = \frac{38}{5}$$

$$\Rightarrow x = \frac{38}{5} \times \frac{180}{19}$$

$$\Rightarrow x = 72 \text{ km}$$

Therefore, the value of x is 72 km

Hence, option B is correct.

58. B

Sol. Let the three positive numbers be a, b and c

Given:

$$\frac{a+b}{2} + c = 154$$

$$\Rightarrow a + b + 2c = 308 \dots\text{eq1}$$

$$\frac{b+c}{2} + a = 148$$

$$\Rightarrow b + c + 2a = 296 \dots\text{eq2}$$

$$\frac{c+a}{2} + b = 132$$

$$\Rightarrow c + a + 2b = 264 \dots\text{eq3}$$

By adding eq1, eq2 and eq3

$$\Rightarrow 4a + 4b + 4c = 868$$

$$\Rightarrow a + b + c = \frac{868}{4}$$

$$\Rightarrow a + b + c = 217$$

$$\frac{a+b+c}{3} = \frac{217}{3} = 72\frac{1}{3}$$

Now, required average of three numbers =

Hence, option B is correct.

59. B

Sol. Let the total work = LCM of 15, 20 = 60 units

$$\text{Work done by A in one day} = \frac{60}{15} = 4 \text{ units}$$

$$\text{Work done by B in one day} = \frac{60}{20} = 3 \text{ units}$$

$$\frac{60 \times \left(\frac{35}{100}\right)}{(4+3)}$$

Therefore, required time to complete 35% of the same work =

$$= \frac{21}{7}$$

$$= 3 \text{ days}$$

Hence, option B is correct.

60. B

Sol. We know that:

$$\text{Standard deviation} = \sqrt{\text{variance}}$$

$$= \sqrt{0.81}$$

$$= 0.9$$

Therefore, the standard deviation = 0.9

Hence, option B is correct.

61. B

Sol. Let the speed of two trains be $5x$ and $8x$

We know that:

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

$$\text{Speed of the second train} = \frac{400}{4} = 100 \text{ km/hr}$$

$$\text{Therefore, the speed of first train} = \frac{100}{8x} \times (5x) = 62.5 \text{ km/hr}$$

Hence, option B is correct.

62. A

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

We know that:

$$\frac{\text{Cost price}}{\text{marked price}} = \frac{(100 - \text{discount}\%)}{(100 + \text{profit}\%)}$$

$$\Rightarrow \frac{x}{4450} = \frac{(100 - 15)}{(100 + 15)}$$

$$\Rightarrow x = \frac{4450 \times 85}{115}$$

$\Rightarrow x = 3289$ Rs.

Hence, option A is correct.

63. D

Sol.

$$\left[\left\{ \left(3 - \frac{2}{1 + \frac{1}{4 + \frac{2}{3}}} \right) \text{ of } 1 \frac{13}{21} \div 3 \frac{2}{7} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$$

The value of

By using BODMAS rules –

$$\begin{aligned}
 &= \left[\left\{ \left(3 - \frac{2}{1 + \frac{1}{\frac{14}{3}}} \right) \text{ of } \frac{34}{21} \div \frac{23}{7} \right\} - \frac{1}{3} \right] \times \frac{9}{10} \\
 &= \left[\left\{ \left(3 - \frac{2}{1 + \frac{3}{14}} \right) \times \frac{34}{21} \times \frac{7}{23} \right\} - \frac{1}{3} \right] \times \frac{9}{10} \\
 &= \left[\left\{ \left(3 - \frac{2 \times 14}{17} \right) \times \frac{34}{21} \times \frac{7}{23} \right\} - \frac{1}{3} \right] \times \frac{9}{10} \\
 &= \left[\left\{ \left(\frac{51 - 28}{17} \right) \times \frac{34}{21} \times \frac{7}{23} \right\} - \frac{1}{3} \right] \times \frac{9}{10} \\
 &= \left[\left\{ \frac{23}{17} \times \frac{34}{21} \times \frac{7}{23} \right\} - \frac{1}{3} \right] \times \frac{9}{10} \\
 &= \left[\frac{2}{3} - \frac{1}{3} \right] \times \frac{9}{10}
 \end{aligned}$$

$$= \frac{1}{3} \times \frac{9}{10}$$

$$= \frac{3}{10}$$

Hence, option D is correct.

64. B

Sol. Let the two numbers be x and y

We know that:

$$\text{First number} \times \text{second number} = \text{LCM} \times \text{HCF}$$

$$\Rightarrow (x) \times (y) = 48 \times 12$$

$$\Rightarrow xy = 576$$

Therefore, required value of the square root of the product of these numbers = $\sqrt{xy} = \sqrt{576} = 24$

Hence, option B is correct.

65. A

Sol. Let the number of boys and girls in a school be $35x$ and $39x$

Given:

$$\Rightarrow \frac{(35x) + (39x)}{2} = 740$$

$$\Rightarrow \frac{74x}{2} = 740$$

$$\Rightarrow x = \frac{740 \times 2}{74}$$

$$\Rightarrow x = 20$$

Therefore, the number of girls = $39x = 39 \times 20 = 780$

Hence, option A is correct.

66. D

Sol.

$$\frac{3}{8} \text{ of } \frac{2}{3} \div \left[\frac{5}{3} \text{ of } 300 + 7\frac{1}{2} \div 5\frac{1}{2} \times 1100 \right]$$

The value of $500 \div \frac{3}{8}$ of $\frac{2}{3} \div \left[\frac{5}{3} \text{ of } 300 + 7\frac{1}{2} \div 5\frac{1}{2} \times 1100 \right]$

By using BODMAS rules –

$$\begin{aligned} & 500 \times \frac{8}{3} \times \frac{3}{2} \\ &= \left[\frac{5}{3} \times 300 + \frac{15}{2} \times \frac{2}{11} \times 1100 \right] \\ &= \frac{2000}{[500 + 1500]} \\ &= \frac{2000}{2000} \\ &= 1 \end{aligned}$$

Hence, option D is correct.

67. C

Sol. We know that:

$$\begin{aligned} \text{Cost price} &= \text{selling price} \times \frac{100}{(100 - \text{loss}\%)} \\ &= 388 \times \frac{100}{(100 - 3)} \\ &= 388 \times \frac{100}{97} \\ &= 400 \text{ Rs.} \end{aligned}$$

$$\text{Therefore, selling price to gain a profit of } 8\% = 400 \times \frac{(100 + 8)}{100} = 400 \times \frac{108}{100} = 432 \text{ Rs.}$$

Hence, option C is correct.

68. D

Sol. Let the radius of the circle be x cm

We know that:

$$\text{Area of the circle} = \pi r^2$$

$$= \pi(x)^2$$

If the radius of the circle is increased by 19%, then radius of the new circle = $(x) \times \frac{(100 + 19)}{100} = \frac{119x}{100}$

$$\text{Area of the new circle} = \pi \times \left(\frac{119x}{100} \right) \times \left(\frac{119x}{100} \right) = \frac{14161\pi(x)^2}{10000}$$

$$\left(\frac{\frac{14161\pi(x)^2}{10000} - \pi x^2}{\pi x^2} \right) \times 100$$

$$\text{Therefore, required percentage} =$$

$$= \left(\frac{\frac{14161\pi(x)^2}{10000} - \pi x^2}{\pi x^2} \right) \times 100$$

$$= \frac{4161}{10000} \times 100$$

$$= 41.61\%$$

Hence, option D is correct.

69. B

Sol. According to the question,

$$\Rightarrow \frac{21-x}{22-x} = \frac{60-x}{64-x}$$

$$\Rightarrow 1344 - 64x - 21x + x^2 = 1320 - 22x - 60x + x^2$$

$$\Rightarrow 1344 - 85x = 1320 - 82x$$

$$\Rightarrow 85x - 82x = 1344 - 1320$$

$$\Rightarrow 3x = 24$$

$$\Rightarrow x = 8$$

We know that:

If two numbers are x and y , then Mean proportional = \sqrt{xy}

$$= \sqrt{(x-2)(2x+8)}$$

$$= \sqrt{(8-2)(2(8)+8)}$$

$$= \sqrt{6 \times 24}$$

$$= 12$$

Hence, option B is correct.

70. A

Sol. Let the total voters be x

$$\text{Number of male voters} = (x) \times \frac{60}{100} = \frac{3x}{5}$$

$$\text{Number of female voters} = x - \frac{3x}{5} = \frac{2x}{5}$$

$$\text{Number of literate males} = \frac{3x}{5} \times \frac{(100-40)}{100} = \frac{3x}{5} \times \frac{60}{100} = \frac{9x}{25}$$

$$\text{Number of illiterate females} = \frac{2x}{5} \times \frac{(100-25)}{100} = \frac{2x}{5} \times \frac{75}{100} = \frac{3x}{10}$$

$$\frac{\left(\frac{9x}{25} - \frac{3x}{10}\right)}{\left(\frac{3x}{10}\right)} \times 100$$

Therefore, required percentage =

$$\frac{\left(\frac{18x - 15x}{50}\right)}{\left(\frac{3x}{10}\right)} \times 100$$

$$= \frac{3x}{50} \times \frac{10}{3x} \times 100$$

$$= 20\%$$

Hence, option A is correct.

71. C

Sol. Let the principal amount be x Rs.

We know that:

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

According to the question,

$$\Rightarrow \frac{(x) \times 12.5 \times 1}{100} - \frac{(x) \times 8 \times 1}{100} = 459$$

$$\Rightarrow \frac{12.5x - 8x}{100} = 459$$

$$\Rightarrow \frac{4.5x}{100} = 459$$

$$\Rightarrow x = \frac{459 \times 100}{4.5}$$

$$\Rightarrow x = 10200 \text{ Rs.}$$

Therefore, the principal amount is 10200 Rs.

Hence, option C is correct.

72. C

Sol. A can complete 60% of the work in = 9 days

$$\text{A can complete 100% of the work in} = \frac{9}{60} \times 100 = 15 \text{ days}$$

$$\text{B can complete the work in} = 7\frac{1}{2} \text{ days}$$

$$\text{Therefore, required time to complete the work by A and B} = \frac{A \times B}{(A + B)}$$

$$= \frac{15 \times 7.5}{(15 + 7.5)}$$

$$= \frac{15 \times 7.5}{22.5}$$

$$= 5 \text{ days}$$

Hence, option C is correct.

73. A

Sol. We know that:

$$\text{Area of the four walls} = 2(l + b)h$$

$$= 2(25 + 12)6$$

$$= 2 \times 37 \times 6$$

$$= 444 \text{ m}^2$$

$$\text{Area of the bottom of the tank} = l \times b$$

$$= 25 \times 12$$

$$= 300 \text{ m}^2$$

$$\text{Therefore, required total cost} = (444 + 300) \times 15$$

$$= 744 \times 15$$

$$= 11160 \text{ Rs.}$$

Hence, option A is correct.

74. A

Sol. Let the cost price of the first bike be x Rs.

$$\text{Cost price of the second bike} = (50000 - x) \text{ Rs.}$$

According to the question,

$$\Rightarrow (x) \times \frac{(100 + 20)}{100} = (50000 - x) \times \frac{(100 - 20)}{100}$$

$$\Rightarrow (x) \times \frac{120}{100} = (50000 - x) \times \frac{80}{100}$$

$$\Rightarrow \frac{6x}{5} + \frac{4x}{5} = 40000$$

$$\Rightarrow \frac{10x}{5} = 40000$$

$$\Rightarrow x = 40000 \times \frac{5}{10}$$

$$\Rightarrow x = 20000 \text{ Rs.}$$

Therefore, the cost price of the bike was 20000 Rs.

Hence, option A is correct.

75. A

Sol. Let the number of students in class B be x

$$\text{Number of students in class A} = (x) \times \frac{(100 + 40)}{100} = \frac{140x}{100} = \frac{7x}{5}$$

Given:

$$\Rightarrow x + \frac{7x}{5} = 72$$

$$\Rightarrow \frac{5x + 7x}{5} = 72$$

$$\Rightarrow \frac{12x}{5} = 72$$

$$\Rightarrow x = \frac{5 \times 72}{12}$$

$$\Rightarrow x = 30$$

Number of students in class B = 30

Number of students in class A = $72 - 30 = 42$

Now,

Let the average marks of A be y

$$\text{Average marks of B} = (y) \times \frac{(100 + 50)}{100} = (y) \times \frac{150}{100} = \frac{3y}{2}$$

According to the question,

$$\begin{aligned} & \Rightarrow 42 \times y + 30 \times \frac{3y}{2} = 72 \times 58 \\ & \Rightarrow 42y + 45y = 72 \times 58 \\ & \Rightarrow 87y = 72 \times 58 \\ & \Rightarrow y = \frac{72 \times 58}{87} \\ & \Rightarrow y = 48 \end{aligned}$$

Therefore, the average marks of B = $\frac{3y}{2} = \frac{3 \times 48}{2} = 72$

Hence, option A is correct.

76. C

- Sol. • **Indus Waters Treaty was signed between India and Pakistan on September 19, 1960.**
- The treaty was signed between two countries after nine years of negotiations with the help of the World Bank.
 - It was signed in Karachi by Indian Prime Minister Jawaharlal Nehru and Pakistani President Ayub Khan.
 - The Treaty allocates the Western Rivers (Indus, Jhelum, Chenab) to Pakistan and the Eastern Rivers (Ravi, Beas, Sutlej) to India.

77. B

- Sol. • Option B is the correct answer.
- The melting point of ice at 1 atmosphere of pressure is very close to 0 °C (32 °F; 273 K). This is also known as the ice point.
 - The melting point of a substance is the temperature at which it changes state from solid to liquid.

78. B

- Sol. • The 1983 Cricket World Cup was the 3rd edition of the Cricket World Cup tournament.
- It was held from 9 to 25 June 1983 in England and Wales.
 - **India won this World Cup by defeating West Indies by 43 runs in the final.**

- India has won the Cricket World Cup twice (1983, 2011).
- In 2011, India won their second Cricket World Cup by defeating Sri Lanka by 6 wickets in the final at the Wankhede Stadium in Mumbai.

79. D

Sol. • Aurangabad city (Maharashtra) was founded by **Malik Ambar ('Anbar)** in 1610.

- It was originally known as Khadki.
- After the fall of the Nizam Shahī dynasty in 1633, the city came under Mughal rule.
- The city was renamed Aurangabad by Aurangzeb when it came under Mughal rule.

80. B

Sol. • Cinnabar is the principal ore of **mercury**.

- It has a bright red color.
- It usually forms in rocks surrounding geologically recent volcanic activity.
- Mercury is a chemical element with the symbol Hg and atomic number 80.
- It is commonly known as quicksilver.

81. A

Sol. • Imaginary Homelands is a collection of essays written by **Salman Rushdie**.

- Salman Rushdie is a British-American novelist and essayist of Indian descent.
- His second novel "Midnight's Children (1981)" won the Booker Prize in 1981.

82. D

Sol. • **Ponu Yoksi** is an instrument that looks like a sword with a sharp edge.

- In **Arunachal Pradesh**, Ponu Yoksi is used during ceremonial dances performed by priests.
- Pema Khandu is the current chief minister of Arunachal Pradesh.
- B. D. Mishra is the current governor of Arunachal Pradesh.

83. D

Sol. • In 1996, the Government of India set up a Disinvestment Commission under the Ministry of Industries.

- It was headed by **GV Ramakrishna**.
- The commission was set up to advise, publicize, supervise and monitor gradual disinvestment of Indian Public Sector Undertakings (PSUs).

84. A

- Sol. • **Ayodhya** is situated on the banks of holy river **Saryu** in **Uttar Pradesh**.
• It is also known as **Saketa**.
• It is the birthplace of Lord Rama. Ayodhya used to be the capital of the ancient Kosala Kingdom.
• The Sarayu river originates at a ridge south of Nanda Kot mountain in Bageshwar, Uttarakhand.

85. C

- Sol. • 'Balchão' and 'Sorpote' are the traditional culinary dishes of **Goa**.
• The staple food of Goa is rice and fish curry.
• Pramod Sawant is the current chief minister of Goa.
• P. S. Sreedharan Pillai is the current governor of Goa.

86. B

- Sol. • **Bagurumba** is a **folk dance** of indigenous Bodo tribe in **Assam** and Northeast India.
• It is a traditional dance which is traditionally inherent to one generation to another generations.
• The Bagurumba dance is performed by the Bodo women.

87. B

- Sol. • **In the Lok Sabha, discussion under rule 193 of the Constitution of India does not involve a formal motion before the House.**
• Hence no voting can take place after discussion on matters under this rule.
• According to Article 79 of the Constitution of India, the Parliament of India consists of the President of India and the two Houses of Parliament known as the Council of States (Rajya Sabha) and the House of the People (Lok Sabha).
• The Lok Sabha is the lower house of the Parliament.
• Om Birla is the 17th and current Speaker of the Lok Sabha.

88. D

- Sol. • The CITES (Convention on International Trade in Endangered Species of Wild Fauna and Flora) is a multilateral treaty to protect endangered plants and animals.

- India became a signatory to the CITES in **1975**.
- It was established in 1973.
- It entered into force on 1 July 1975.
- The CITES Secretariat is administered by UNEP (The United Nations Environment Programme) and is headquartered at Geneva, Switzerland.

89. D

- Sol. • **Muhuri** is a transnational river between India and Bangladesh.
 - It originates in the **Lushai Hills of Tripura**.
 - The Muhuri river is also known as the Little Feni.

90. D

- Sol. • **Patharughat peasant uprising** was occurred on January 28, 1894 in Assam.
 - Patharughat is a small village in Assam's Darrang district.
 - Patharighat is known as Assam's Jallianwala Bagh.
 - This rebellion was done in protest against the high taxation in land revenue imposed by the colonial administration.

91. D

- Sol. • **Cow** is a ruminant animal.
 - Ruminants are hoofed mammals that have a unique digestive system that allows them to better use energy from fibrous plant material than other herbivores.
 - These animals include **cattle, sheep, buffalo, antelopes, giraffe, and camels**.

92. B

- Sol. • **Solder** is an alloy of Lead and tin.
 - It is a fusible metal alloy.
 - It is used to create a permanent bond between metal workpieces.
 - Lead is a chemical element with the symbol Pb and atomic number 82.

93. A

- Sol. • **Saurabh Chaudhary** is an Indian ace shooter.
 - He won the gold medal at the 2018 Asian Games in 10 m Air Pistol.
 - He was the youngest Indian gold medalist at the Asian Games.

- He is the only Indian shooter to win a gold medal in ISSF World Championship, ISSF World Cup, Youth Olympic Games, Asian Games and Asian Air Gun Championship.

94. A

- Sol. • **Indian artist Pradeep Puthur** received the Jackson Pollock Fellowship for the second time in the year 2019.
- Earlier, he received the fellowship in 2003.
 - He received the Lalit Kala Akademi National Award for the painting titled 'Air Airy' in 1992 at the age of 27.
 - In 2005, he represented India in Florence Biennale, Italy.
 - The fellowship is named after abstract expressionist painter Jackson Pollock.
 - The fellowship was instituted by the Pollock Krasner Foundation.
 - It is headquartered in New York, US.

95. A

- Sol. • **Atal Bihari Vajpayee** undertook a bus journey to Lahore to sign a **Peace Declaration with Pakistan in 1999**.
- Atal Bihari Vajpayee served three terms as the prime minister of India.
 - He was one of the co-founders and a senior leader of the Bharatiya Janata Party (BJP).
 - He was the first Indian prime minister not of the Indian National Congress to serve a full term in office.
 - During his tenure as prime minister, India carried out the Pokhran-II nuclear tests in 1998.

96. D

- Sol. • **India** is the second largest producer of agricultural products as per February 2019.
- China is the **world's largest producer** of agricultural products.
 - India is the world's second-largest producer of rice, wheat, sugarcane, cotton, groundnuts and fruits & vegetables.
 - It also produced 25% of the world's pulses, as of last decade, until 2019.
 - India is the world's largest producer of milk, pulses and jute.
 - India is the world's third largest economy after the US and China.

97. A

- Sol. • India was ranked **68th** position in the **Global Competitiveness Index, 2019, released by the World Economic Forum (WEF) on October 9, 2022.**
- India was ranked 43rd rank on an annual World Competitiveness Index 2021 compiled by the Institute for Management Development (IMD).
 - The World Economic Forum (WEF) is an international organisation.
 - It is headquartered in Geneva, Switzerland.
 - It was founded on 24 January 1971 by German engineer and economist Klaus Schwab.

98. D

- Sol. • **Sodium chloride** is used as a preservative.
- Salt is effective as a preservative because it reduces the water activity of foods.
 - Sodium chloride is an ionic compound with the chemical formula **NaCl**.

99. D

- Sol. • **Kapilendra Deva** (1434–1467 CE) was the founder of the Suryavamsa Gajapati Empire.
- Suryavamsi Gajapati dynasty ruled parts of **Orissa and Andhra Pradesh in the 15th century.**
 - The significant rulers of this dynasty were Purushottama Deva (1467–1497) and Prataparudra Deva (1497–1540).
 - Kakharua Deva was the last ruler of this dynasty.
 - The Gajapati kings patronized Vaishnavism and were ardent devotees of Lord Vishnu.

100. B

- Sol. • The book titled '**The End of Imagination**' is authored by **Arundhati Roy**.
- Arundhati Roy best known for her novel The God of Small Things (1997), which won the Man Booker Prize for Fiction in 1997.
 - In January 2006, she was awarded the Sahitya Akademi Award.

Mock Test Solutions in Hindi

Questions

1. Select the most appropriate words to fill in the blank.

The pen I _____ five years ago is still writing well.

2. Select the most appropriate word which means the same as the group of words given.

Force someone through fear to do or not to do something

- A. Intimidate
 - B. Control
 - C. Subjugate
 - D. Murder

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

Play safe

- A. Avoid risks and take precautions
 - B. Do something following rules
 - C. Play a game steadily
 - D. Play a game without getting hurt

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

Feel the pinch

- A. Maintain total silence
 - B. Be in an agitated state of mind
 - C. Listen carefully
 - D. Face financial difficulties

- 5. Choose the correctly spelt word.**

- | | |
|--------------|-------------|
| A. Readiater | B. Radieter |
| C. Redieter | D. Radiator |

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

Anshima was too exhausted to continue the race.

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

One of the rooms in the new house had not yet been completed.

- A. is not yet been completed B. are not yet been completed
C. has not yet been D. have not yet been

8. The given sentence contains a grammatical error. Identify the segment that contains the error.

While he was running along the garden path, he has tripped over a big stone.

- A. While he was running B. long the garden path
C. he has tripped D. over a big stone

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

The development of solar energy is of _____ interest, as it is a possible substitute for oil.

- A. compound B. usual
C. global D. simple

10. Select the most appropriate word which means the same as the group of words given.

A shortage of vitamins, minerals, etc. needed for good health

- A. Deficiency B. Nutrition
C. Defect D. Disease

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

BARRIER

- A. Advocate B. Obstacle
C. Hindrance D. Opening

12. 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'.

Anant went to the park every evening to exercise at his friends.

- A. in exercising between B. to exercise with
C. No substitution required D. on exercise along

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

CLEAR

- A. Doubt
- C. Dim

- B. Open
- D. Known

14. Choose the correctly spelt word.

- A. Saround
- C. Sarrund

- B. Surround
- D. Surrrond

15. The given sentence contains a grammatical error. Identify the segment that contains the error.

My sister prefers tea than coffee in the afternoon after lunch.

- A. tea than coffee
 - C. after lunch
- B. in the afternoon
 - D. My sister prefers

16. The given sentence contains a grammatical error. Identify the segment that contains the error.

If I am you, I wouldn't take the risk of going to the market.

- A. the risk of
 - C. I wouldn't take
- B. If I am you
 - D. going to the market

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

The _____ of an atom of oxygen is different from that of an atom of hydrogen.

- A. value
 - C. structure
- B. procedure
 - D. position

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

BANISH

- A. Paint
 - C. Exile
- B. Scrape
 - D. Invent

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

The effects of the fuel price hike _____ severely even now.

- A. were being felt
 - C. has been felt
- B. are being felt
 - D. is being felt

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

DISCOVER

- A. Shut
- B. Close
- C. Find
- D. Search

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.

The mobile phone that you have may be called “the little computer”. Do you know why? It has been claimed that it is thousands of times more powerful (1)_____ the computers that powered NASA’s moon missions in the 1960s. Thus, the present-day smart phones are much (2)_____ but more powerful than the computers of about sixty years ago. Now a standard smart phone has (3)_____ replaced computers for many households because many internet services are now (4)_____ on the smart phone. In its early years, mobile internet was (5)_____ used only for email. Moreover, monthly data use per subscriber had risen from 2.7 GB in 2016 to 10.4 GB in 2019, but data prices had fallen from `152 per GB to a mere ten rupees during the same period.

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

- A. for
- B. than
- C. from
- D. then

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

- A. harder
- B. sharper
- C. smaller
- D. bigger

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

- A. effectively
- B. faithfully
- C. productively
- D. predictably

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

- A. unavailable
- B. accessible
- C. inaccessible
- D. expensive

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

- A. efficiently
- B. primarily
- C. importantly
- D. secondarily

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

कथन:

सभी टूल, हार्डवेयर हैं।

सभी हार्डवेयर, मेटालिक हैं।

निष्कर्ष:

I. सभी मेटालिक, टूल हैं।

II. सभी टूल, मेटालिक हैं।

A. दोनों निष्कर्ष | और || अनुसरण करते हैं

C. केवल निष्कर्ष || अनुसरण करता है

B. केवल निष्कर्ष | अनुसरण करता है

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

27. उस संख्या-युग्म का चयन कीजिए जिसमें संख्याएं उसी प्रकार संबंधित हैं जिस प्रकार दिए गए युग्म में संबंधित हैं।

10.3 : 0.0103

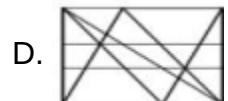
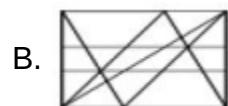
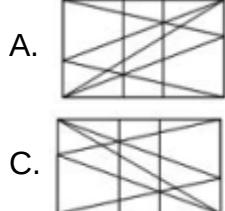
A. 2.80 : 0.0280

B. 020 : 0.002

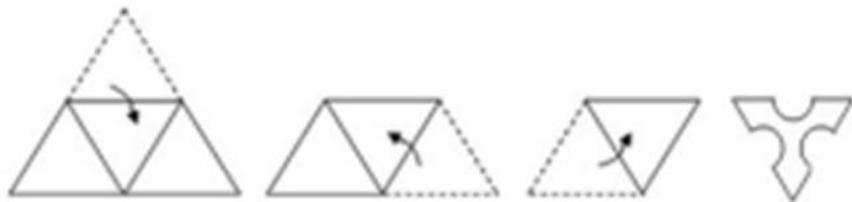
C. 2.80 : 0.00280

D. 020 : 0.20

28. उस विकल्प की पहचान करें जिसमें निम्नलिखित आकृति अंतर्निहित है (रोटेशन की अनुमति नहीं है)।



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



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

30. उस विकल्प का चयन करें जिसमें संख्याएं उसी प्रकार संबंधित हैं जिस प्रकार निम्नलिखित समुच्चय की संख्याएं संबंधित हैं।

(132, 126, 117)

31. निम्नलिखित अक्षर-समूह शरूँखला में कौन सा अक्षर-समूह प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगा?

USQ, NLJ, GEC, ?

32. निम्नलिखित संख्या शृंखला में कौन सी संख्या प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगी?

6, 12, 9, 36, 31, 186, ?

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

Right : Correct :: Peak : ?

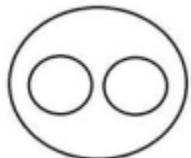
- A. Hill
- B. Valley
- C. Tall
- D. Top

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

$$46 * 12 * 32 * 8 * (96 * 23) = 437$$

- A. -, ×, +, +, ÷, +
- B. ÷, -, ×, +, -
- C. +, ×, -, ÷, -
- D. ×, +, ÷, -, +

35. नीचे दर्शाए गए वेन आरेख में, किन विकल्पों के बीच संबंध को सही ढंग से दर्शाया गया है?

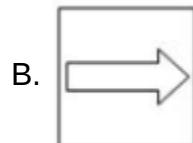
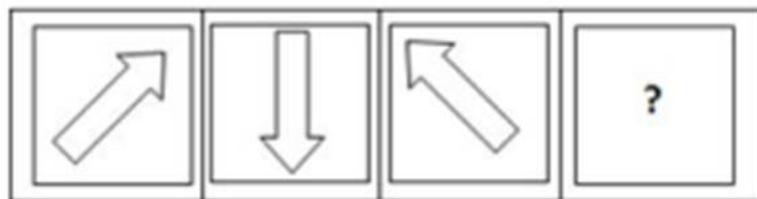


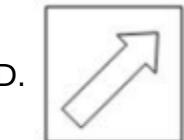
- A. गाजर, भोजन, ड्रेसिंग टेबल
- B. बहुभुज, चतुर्भुज, वृत्त
- C. फर्नीचर, कुर्सियाँ, मेज
- D. पक्षी, कुत्ते, मोर

36. एक निश्चित कूट भाषा में, यदि DOUBLE को FRYGRL के रूप में लिखा जाता है, तो उसी कूट भाषा में METHYL को किस प्रकार लिखा जाएगा?

- A. GRXFQJ
- B. OHXMES
- C. GRXEON
- D. FQYFRK

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





38. निम्नलिखित नामों (भौगोलिक स्थिति) के अनुक्रमिक क्रम को दर्शाने के लिए सही विकल्प का चयन करें।

1. महाराष्ट्र

2. राजस्थान

3. कर्नाटक

4. गुजरात

5. केरल

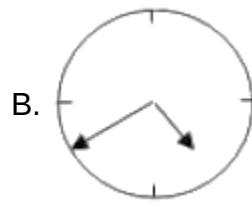
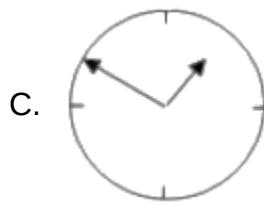
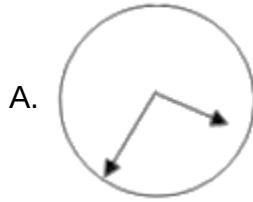
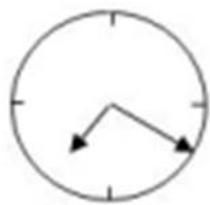
A. 5-1-3-4-2

B. 5-3-1-4-2

C. 4-1-2-5-3

D. 3-5-4-1-2

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



40. छह व्यक्ति एक वृत्ताकार मेज की चारों ओर केंद्र की ओर मुख करके बैठे हैं। W, X की ठीक बाईं ओर है, जो Y के विपरीत बैठा है। यदि

V, Y की बाईं ओर से दूसरे स्थान पर है तथा U के ठीक विपरीत है, तो Z का बैठने का स्थान क्या है?

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



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

42. जब मैं अपने घर से ऑफिस जा रहा था, सबह-सबह मेरी परछाई मेरे बाएँ हाथ की तरफ बन रही थी। मेरा घर ऑफिस से किस दिशा में है?

- A. उत्तर-पश्चिम B. उत्तर
C. दक्षिण D. पूर्व

43. 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।

CUSTOMER : YQWXKIIV :: COMMERCIAL : ?

- A. YKQQQANGMW
B. GSQQIVGMEP
C. YKIJANYEWH
D. GSIIEREWEP

44. निम्नलिखित संख्या शूरूखला में कौन सी संख्या प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगी?

23, 19, 17, 13, ?

कथनः

कोई बुक, स्टोन नहीं है ।

कुछ स्टोन, सॉफ्ट हैं।

निष्कर्ष-

- I. कोई बुक, सॉफ्ट नहीं है।

II. कुछ बुक्स, सॉफ्ट हैं।

A. केवल निष्कर्ष। अनुसरण करता है

C. न तो निष्कर्ष। न ही। अनुसरण करता है

B. दोनों निष्कर्ष। और।। अनुसरण करते हैं

D. केवल निष्कर्ष।। अनुसरण करता है

46. एक निश्चित कूट भाषा में, यदि GLADIATOR को TROLIGDAA के रूप में लिखा जाता है, तो उसी कूट भाषा में SKILLFUL को किस प्रकार लिखा जाएगा?

A. ULLFILSK

C. USLLLKIF

B. LUFLLIKS

D. FIKLALLSU

47. जिस प्रकार 'हेक्टेयर' का संबंध 'क्षेत्रफल' से है उसी प्रकार 'पास्कल' का संबंध '_____ ' से है।

A. क्षमता

C. दबाव

B. तापमान

D. ऊर्जा

48. यदि एक निश्चित कूट भाषा में, TICKBOX को 106 के रूप में तथा RELEASE को 125 के रूप में कूटबद्ध किया जाता है, तो उसी कूट भाषा में PACKAGE को किस प्रकार कूटबद्ध किया जाएगा?

A. 44

C. 145

B. 146

D. 45

49. यदि एक निश्चित कूट भाषा में, NOTECARD को 56253194 के रूप में और OPENMIND को 67554954 के रूप में कूटबद्ध किया जाता है, तो उसी कूट भाषा में HARDCORE को किस प्रकार कूटबद्ध किया जाएगा?

A. 91843165

C. 81143115

B. 81843585

D. 81943695

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

$$72 \div 36 + 12 \times 13 - 48 = 63$$

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

51. एक राशि चक्रवृद्धि ब्याज की निश्चित दर से 15 वर्षों में दोगुनी हो जाती है। कितने वर्षों में यह स्वयं का चार गुना हो जाएगी?

- A. 45
B. 30
C. 25
D. 15

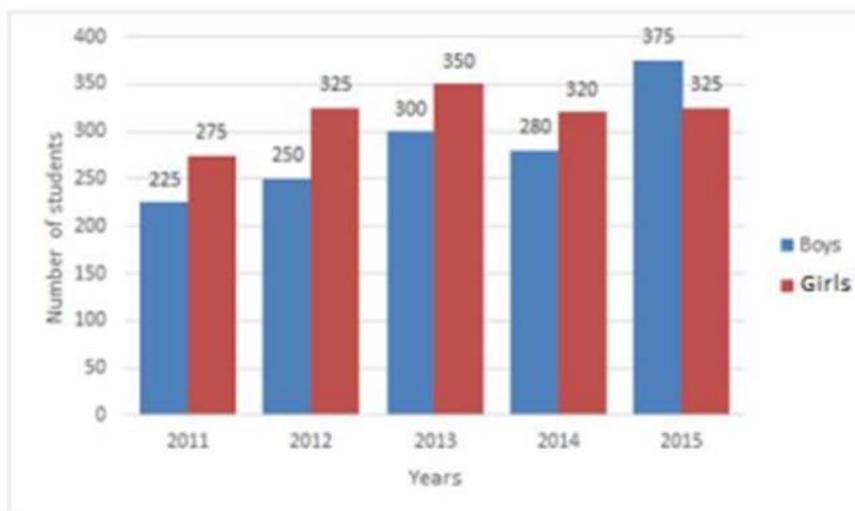
52. यदि एक आयत की लंबाई में 80% की वृद्धि की जाती है, तो उसी क्षेत्रफल को बनाए रखने के लिए चौड़ाई में कितने प्रतिशत की कमी (दशमलव के एक स्थान तक सही) होगी?

- A. 44.4%
B. 42.5%
C. 40.2%
D. 43.5%

53. एक धनराशि को P, Q, R और S के बीच क्रमशः 3:4:5:6 के अनुपात में वितरित किया जाता है। यदि R को Q से 500 रुपये अधिक मिलते हैं, तो उनके सभी शेयरों का योग (रुपये में) क्या है?

- A. 8,000
B. 9,000
C. 7,500
D. 6,000

54. **निर्देश:** निम्नलिखित ग्राफ का अध्ययन करें जो अलग-अलग वर्षों में एक स्कूल XYZ में दसवीं कक्षा की परीक्षा में बैठने वाले लड़कों और लड़कियों की संख्या को दर्शाता है।



2012 और 2013 में दसवीं कक्षा की परीक्षा में बैठने वाले लड़कों की कुल संख्या का 2012 और 2015 में उपस्थित होने वाली लड़कियों से अनुपात कितना है?

A. 11 : 15

B. 11 : 13

C. 15 : 11

D. 13 : 11

55. 2011, 2013 और 2015 में उपस्थित होने वाले लड़कों की संख्या का औसत 2012 में उपस्थित होने वाली लड़कियों की संख्या से कितना प्रतिशत कम है (एक दशमलव स्थान तक सही)?

A. 8.1%

B. 8.5%

C. 6.9%

D. 7.7%

56. 2012, 2013 और 2015 में उपस्थित होने वाली लड़कियों की कुल संख्या, सभी पांच वर्षों में उपस्थित होने वाले लड़कों की कुल संख्या से कितना प्रतिशत कम है (एक दशमलव स्थान तक सही)?

A. 32.6%

B. 33.3%

C. 29.79%

D. 30.1%

57. एक कार x किमी की दूरी $5\frac{5}{9}$ मीटर/सेकंड की गति से तय करती है और 5 मीटर/सेकंड की गति से प्रारंभिक बिंदु पर वापस आती है।

यदि कार द्वारा लिया गया कुल समय $7\frac{3}{5}$ घंटे है तो x का मान (किमी में) X क्या है?

A. 78

B. 72

C. 80

D. 66

58. तीन धनात्मक संख्याएँ हैं। यदि उनमें से किन्हीं दो के औसत को तीसरी संख्या में जोड़ दिया जाए तो परिणामी योगफल 154, 148 और 132 होता है। मूल तीन संख्याओं का औसत क्या है?

A. $75\frac{1}{3}$

B. $72\frac{1}{3}$

C. $70\frac{1}{3}$

D. $76\frac{1}{3}$

59. 'A' एक कार्य को 15 दिनों में पूरा कर सकता है और 'B' उसी कार्य को 20 दिनों में पूरा कर सकता है। एक साथ कार्य करते हुए, वे उसी कार्य का 35% कितने दिनों में पूरा करेंगे?

A. 5

B. 3

C. 6

D. 7

60. यदि 5 मानों का प्रसरण 0.81 है, तो इसका मानक विचलन क्या है?

A. 0.09

B. 0.9

- C. 2.7 D. 0.27

61. दो ट्रेनों की गति का अनुपात 5:8 है। यदि दूसरी ट्रेन 4 घंटे में 400 किमी चलती है तो पहली ट्रेन की गति (किमी/घंटा में) _____ है।
 A. 37 B. 62.5
 C. 12.5 D. 25

62. एक वस्तु का अंकित मूल्य 4,450 रुपये है। यदि कोई व्यक्ति 15% की छूट देने के बाद 15% का लाभ कमाता है तो वस्तु का लागत मूल्य (रुपये में) (निकटतम पूर्णांक तक सही) कितना है?
 A. 3,289 B. 3,378
 C. 3,189 D. 3,498

63. $\left[\left(3 - \frac{2}{1 + \frac{1}{4 + \frac{2}{3}}} \right) \text{ of } 1\frac{13}{21} \div 3\frac{2}{7} \right] - \frac{1}{3} \times \frac{9}{10}$ का सरलीकृत मान क्या है?
 A. 1 B. 2
 C. $\frac{1}{5}$ D. $\frac{3}{10}$

64. यदि दो संख्याओं का HCF 12 है और उन्हीं दो संख्याओं का LCM 48 है, तो इन संख्याओं के गुणनफल का वर्गमूल क्या है?
 A. 16 B. 24
 C. 48 D. 12

65. एक स्कूल में लड़के और लड़कियों का अनुपात 35:39 है। यदि स्कूल में लड़कों और लड़कियों का औसत 740 है, तो स्कूल में लड़कियों की संख्या कितनी है?
 A. 780 B. 740
 C. 700 D. 720

66. $\frac{2}{3} \div \left[\frac{5}{3} \text{ of } 300 + 7\frac{1}{2} \div 5\frac{1}{2} \times 1100 \right]$ के $500 \div \frac{3}{8}$ का मान क्या है?
 A. 5 B. 10
 C. 4 D. 1

67. जब एक वस्तु को 388 में बेचा जाता है, तो 3% की हानि होती है। यदि वस्तु को 8% के लाभ पर बेचा जाता है, तो उसका विक्रय मूल्य (में) क्या होगा?
 A. 412 B. 444
 C. 432 D. 460

68. यदि किसी वृत्त की त्रिज्या में 19% की वृद्धि की जाती है, तो उसके क्षेत्रफल में कितने प्रतिशत की वृद्धि होगी?

A. 27.89% B. 32.85%
C. 11.91% D. 41.61%

69. जब 21, 22, 60 और 64 में से प्रत्येक से x घटाया जाता है, तो इस क्रम में प्राप्त संख्याएँ समानुपात में होती हैं, $(x - 2)$ और $(2x + 8)$ के बीच का माध्य समानुपाती क्या है?

A. 16 B. 12
C. 10 D. 14

70. एक निर्वाचन क्षेत्र में 60% मतदाता पुरुष हैं और शेष महिलाएँ हैं। 40% पुरुष निरक्षर हैं और 25% महिलाएँ साक्षर हैं। निरक्षर महिलाओं की तुलना में साक्षर पुरुषों की संख्या कितने प्रतिशत अधिक है?

A. 20% B. 17.5%
C. 25% D. 22.5%

71. यदि साधारण ब्याज की वार्षिक दर 8% से बढ़कर $12\frac{1}{2}\%$ हो जाती है, तो एक व्यक्ति की वार्षिक आय में 459 रुपये की वृद्धि होती है। मूलधन राशि (रुपये में) कितनी होगी?

A. 8,200 B. 12,500
C. 10,200 D. 11,250

72. 'A', 60% कार्य को 9 दिनों में पूरा कर सकता है जबकि 'B', $7\frac{1}{2}$ दिनों में कार्य पूरा कर सकता है। यदि वे एक साथ कार्य करते हैं, तो कार्य कितने दिनों में पूरा होगा?

A. 7 B. 6
C. 5 D. 4

73. एक खुला टैंक 25 मीटर लंबा, 12 मीटर चौड़ा और 6 मीटर गहरा है। इसकी दीवारों और तल की ओर अंदर से 15 रुपये प्रति m^2 की दर से प्लास्टर करने की लागत (रुपये में) क्या होगी?

A. 11,160 B. 12,500
C. 13,275 D. 10,800

74. दो बाइक की लागत मूल्य का योग 50,000 रुपये है। पहली बाइक को 20% के लाभ पर और दूसरी बाइक को 20% की हानि पर बेचा गया। यदि विक्रय मूल्य समान हैं, तो बेची गई पहली बाइक का लागत मूल्य (रुपयों में) क्या है?

A. 20,000 B. 25,000
C. 30,000 D. 27,500

75. कक्षा A और B में छात्रों की कुल संख्या 72 है। A में छात्रों की संख्या B से 40% अधिक है। B में छात्रों के औसत अंक A में छात्रों के औसत अंक से 50% अधिक हैं। यदि A और B में सभी छात्रों के औसत अंक 58 हैं, तो B में छात्रों के औसत अंक क्या हैं?

A. 72

B. 58

C. 50

D. 48

76. वर्ष 1960 में भारत और पाकिस्तान के बीच किस जल संधि पर हस्ताक्षर किए गए?

A. चिनाब

B. ब्यास

C. सिंधु

D. झेलम

77. सामान्य वायुमंडलीय दबाव और 45 डिग्री अक्षांश पर समुद्र तल में बर्फ का गलनांक कितना होता है?

A. 256.14 K

B. 273.16 K

C. 245.18 K

D. 222.14 K

78. पुरुष क्रिकेट विश्व कप 1983 के फाइनल में भारत ने किस क्रिकेट टीम को हराया था?

A. ऑस्ट्रेलिया

B. वेस्ट इंडीज

C. पाकिस्तान

D. इंग्लैंड

79. निम्नलिखित में से किसे औरंगाबाद शहर का संस्थापक माना जाता है?

A. निजाम शाह

B. कुतुब शाह

C. बहलोल लोदी

D. मलिक अंबर

80. सिनेबार निम्नलिखित में से किस धातु का अयस्क है?

A. सोना

B. पारा

C. प्लेटिनम

D. गैलियम

81. निम्नलिखित में से कौन 'इमेजिनरी होमलैंड्स' पुस्तक के लेखक हैं?

A. सलमान रुश्दी

B. खुशवंत सिंह

C. रस्किन बांड

D. अरविंद अडिगा

82. पुजारियों द्वारा किए जाने वाले औपचारिक नृत्यों के दौरान इस्तेमाल किया जाने वाला तलवार जैसा वाद्य 'पोनू योक्सी' (Ponu Yoxsi) से संबंधित है।

A. हिमाचल प्रदेश

B. मध्य प्रदेश

C. उत्तर प्रदेश

D. अरुणाचल प्रदेश

83. निम्नलिखित में से कौन 1996 में स्थापित उद्योग मंत्रालय (सार्वजनिक उद्यम विभाग) के विनिवेश आयोग के अध्यक्ष थे?

A. अरुंधति रॉय

B. एनके सिंह

C. अरविंद मेहता

D. जी.वी रामकृष्ण

84. उस शहर की पहचान करें जो सरयू नदी के तट पर स्थित है?

A. अयोध्या

B. भोपाल

C. कानपुर

D. हरिद्वार

85. 'बालचाओ' और 'सोरपोटेल' _____ के पारंपरिक व्यंजन हैं।

- A. कर्नाटक
C. गोवा
- B. उत्तराखण्ड
D. पंजाब
86. 'बागुरुम्बा' ('Bagurumba') असम में बोडो समुदाय का एक _____ है।
A. स्थानीय खेल
C. पैटिंग शैली
- B. लोक नृत्य
D. औपचारिक जुलूस
87. लोकसभा चर्चा में, भारत के संविधान के किस नियम के तहत सदन के समक्ष औपचारिक प्रस्ताव शामिल नहीं होता है?
A. नियम 123
C. नियम 146
- B. नियम 193
D. नियम 157
88. भारत किस वर्ष CITES (वन्य जीवों और वनस्पतियों पर लुप्तप्राय प्रजातियों में अंतर्राष्ट्रीय व्यापार पर कन्वेशन) का हस्ताक्षरकर्ता बना?
A. 1980
C. 1976
- B. 1983
D. 1975
89. मुहुरी नदी आपको भारत के किस राज्य में मिलेगी?
A. पंजाब
C. उत्तर प्रदेश
- B. मध्य प्रदेश
D. तिरपुरा
90. 'पथरूघाट विद्रोह' किससे संबंधित है?
A. वकीलों का विद्रोह
C. शिक्षकों का विद्रोह
- B. सैनिकों का विद्रोह
D. किसानों का विद्रोह
91. निम्नलिखित में से कौन-सा एक जुगाली करने वाला जानवर है?
A. घोड़ा
C. मुर्गी
- B. गधा
D. गाय
92. निम्नलिखित में से उस मिश्रधातु की पहचान कीजिए जिसमें सीसा एक घटक है?
A. अलनिको
C. निकल
- B. सोल्डर
D. कॉन्स्टेंटन
93. निम्नलिखित में से कौन एक इक्का पिस्टल शूटर है?
A. सौरभ चौधरी
C. संदीप चौधरी
- B. पंकज आडवाणी
D. अमित पंधाल
94. किस भारतीय कलाकार को वर्ष 2019 में दूसरी बार पोलक क्रास्नर फाउंडेशन द्वारा स्थापित जैक्सन पोलक फैलोशिप प्राप्त हुई?
A. प्रदीप पुथूर
C. नीरज गुप्ता
- B. अनीश कपूर
D. रुपेश पैटिरक
95. किस भारतीय प्रधानमंत्री ने वर्ष 1999 में शांति घोषणा पर हस्ताक्षर करने के लिए लाहौर की बस यात्रा की थी?
A. अटल बिहारी वाजपेयी
- B. आई.के गुजराल

- C. पीवी नरसिंहा राव D. एच.डी देवगौड़ा
96. फरवरी 2019 के अनुसार निम्नलिखित में से कौन सा देश कृषि उत्पादों का दूसरा सबसे बड़ा उत्पादक है?
A. चीन B. फ्रांस
C. रूस D. भारत
97. वर्ष 2019 के लिए विश्व आर्थिक मंच के 141 देशों के वैश्विक प्रतिस्पर्धात्मकता सूचकांक में भारत कौन से स्थान पर है?
A. 68वें B. 50वें
C. 60वें D. 58वें
98. निम्नलिखित में से किसका उपयोग परिरक्षक के रूप में किया जाता है?
A. मैग्नीशियम सिलिकेट B. सोडियम पामिटेट
C. डिप्रोपिलीन ग्लाइकोल D. सोडियम क्लोराइड
99. निम्नलिखित में से कौन सूर्यवंशी गजपति वंश का संस्थापक था जिसने 15वीं शताब्दी में उड़ीसा और आंध्र प्रदेश के कुछ हिस्सों पर शासन किया?
A. भानु देव B. वासु देव
C. सुरेंद्र देव D. कपिलेंद्र देव
100. 'द एंड ऑफ इमेजिनेशन' पुस्तक के लेखक कौन हैं?
A. सुधा मूर्ति B. अरुंधति राय
C. किरण देसाई D. झुम्पा लाहिड़ी

Solutions

1. B

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

- *Have bought* = is the structure of verb (plural helping verb) used in present perfect tense.
- *Bought* = is the second form of the verb used in the simple past tense.
- *Has bought* = is the structure of verb (singular helping verb) used in present perfect tense.
- *Buy* = is the first form of verb used in simple present tense.

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

- “*Have bought*” is the structure of verb (plural helping verb) used in present perfect tense. But filler needs verb used in past tense. Thus, option A is incorrect.
- “*Has bought*” is the structure of verb (singular helping verb) used in present perfect tense. But filler needs verb used in past tense. Thus, option C is incorrect.
- “*Buy*” is the first form of verb used in simple present tense. But filler needs verb used in past tense. Thus, option D is incorrect.
- “*Bought*” is the second form of verb. It is used in simple past tense. Here in the given sentence, the time word “five years ago” necessitates the use of simple past tense in the filler. Thus, “*Bought*” becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

The pen I bought five years ago is still writing well.

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

2. A

Sol. Intimidate: to frighten or threaten someone so that they will do what you want.

Control: to have power over a person, company etc. so that you are able to decide what they must do or how it is run.

Subjugate: to defeat someone/something

Murder: to kill someone deliberately and illegally.

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

3. A

Sol. The idiom “**play safe**” means to be careful; to avoid risks.

Example: **Play safe!** Keep out of the sun in the middle of the day.

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

4. D

Sol. The idiom “**feel the pinch**” means to not have enough money.

Example: Lots of people who have lost their job during the lockdown are starting to **feel the pinch**.

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

5. D

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

“Radiator” is the correct spelling. It means a hollow metal device for heating rooms.

6. B

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

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

7. C

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

- The underlined part needs correction in helping verb and tense.
- After the structure “one of + plural subject”, we use a singular verb.

For example:

One of the most important political freedoms **is** freedom of association.

• The present perfect tense is used when at the time of speaking the action is already complete in the past. It shows the connection with the present time via action that happened in the past. Usually, following adverbs and conjunctions are used to express the preceding action: “yet”, “already”, “just” etc.

For example:

We **have just completed** our assignment.

I **haven't received** a letter from her **yet**.

• In the underlined part of the given sentence, the use of the word “yet” necessitates the use of the present perfect tense in the underlined part. But we have erroneously used the past

perfect tense. Thus, the present perfect tense should be used.

- Also, after a subject with “one of” uses a singular helping verb. Thus, the singular helping verb “has” should be used.
- Hence, “**has not yet been**” is the correct substitution.

Thus, the correct sentence will be:

One of the rooms in the new house has not yet been completed.

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

8. C

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

- When we use the past continuous and the simple past tense together, it shows us that the past simple action happened in the middle of the past continuous action, while it was in progress.

For example:

I **was walking** when I **saw** the UFO.

Manish **was washing** his hair when the doorbell **rang**.

- The given sentence is set in the past tense. But we have erroneously used the present perfect tense “has tripped”.

Also, one action i.e. “running” is happening for a longer duration whereas the other action i.e. “tripped” is happening for a shorter duration. Thus, the simple past tense i.e. “tripped” should be used in action that is complete and happens for shorter duration.

- Hence, “**he tripped**” is the correct substitution.

Thus, the correct sentence will be:

While he was running along the garden path, he tripped over a big stone.

9. C

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

- *Compound* = (adjective) formed of two or more parts.
- *Usual* = (adjective) something that happens or is done most of the time or in most cases
- *Global* = (adjective) covering or affecting the whole world.

- *Simple* = (adjective) something that is not complicated.

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

- "*Compound*" as an adjective refers to something that is formed of two or more parts. Thus, option A is incorrect.
- "*Usual*" as an adjective means something that happens or is done most of the time or in most cases. Thus, option B is incorrect.
- "*Simple*" as an adjective means something that is not complicated. Thus, option D is incorrect.
- "*Global*" as an adjective means covering or affecting the whole world. Here in the given sentence, it is used to qualify the noun "interest". It means development of solar energy covers the interest of whole world.

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

Thus, the correct sentence will be:

The development of solar energy is of global interest, as it is a possible substitute for oil.

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

10. A

Sol. Deficiency: the state of not having or not having enough of something that is essential.

Nutrition: the process by which living things receive the food necessary for them to grow and be healthy.

Defect: to leave a political party, country etc. to join another that is considered to be an enemy.

Disease: an illness affecting humans, animals or plants often caused by infection.

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

11. D

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

Barrier= an object like a fence that prevents people from moving forward from one place to another.

E.g.: The crowd had to stand behind **barriers**.

Advocate = to support someone publicly.

Obstacle = a situation that makes it difficult for you to do something.

Hindrance = a person or thing that makes it more difficult for someone to do something.

Opening = a space or hole that someone/something can pass through

E.g.: We could see the stars through an **opening** in the roof.

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

12. B

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

- Underlined part needs correction in preposition.
- “At” as a preposition is used to show when something happens.

For example:

In the morning I leave my house **at** eight o'clock.

- “With” as a preposition is used to show “in the company or presence of someone/something”.

For example:

I have a client **with** me right now.

He lives **with** his parents in New Delhi.

- In the given sentence, “Anant” used to go to park “in the company of his friends” to exercise.

This sense is reflected in the use of preposition “with”. The use of preposition “at” does not conform to the meaning reflected in the given sentence. Thus, the preposition “with” should be used in place of preposition “at”.

- Hence, **“to exercise with”** is the correct substitution.

Thus, the correct sentence will be:

Anant went to the park every evening to exercise with his friends.

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

13. C

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

Clear = when smoke, fog etc. clears, it disappears so that it is easier to see things.

E.g.: The mist will **clear** by mid-morning.

Doubt = to feel uncertain about something.

Open = allowing things or people to go through.

Dim = if a light dims, it becomes or you make it less bright.

E.g.: The lights in the theatre **dimmed** as the curtain rose.

Known = to have information in your mind as a result of experience or because you have learned or been told it.

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

14. B

Sol. **Option B has correctly spelt word.**

“Surround” is the correct spelling. It means to be all around something/someone.

15. A

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

- Comparative adjectives such as junior, senior, prefer (verb), elder etc. are followed by “to” instead of “than”.

- **For example:**

My brother is **elder to** me by 4 years.

He **senior to** his boss in service.

- In the given sentence we have erroneously used “than” after “prefer” to show likeness of “tea” over “coffee”. Thus, preposition “to” should be used in place of “than”.

- Hence, “**tea to coffee**” is the correct substitution.

Thus, the correct sentence will be:

My sister prefers tea to coffee in the afternoon after lunch.

16. B

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

- There are some expressions that we use for something unreal. For example: suppose, wish, if, as if/as though. After these expressions we can use the past subjunctive “were” instead of “was”.

- **For example:**

If I were you, I'd accept the offer.

- In the given sentence, the use of “if” shows that something “unreal” is there. It shows the unreal existence of speaker i.e. “I” in place of “You”. But we have erroneously used helping verb “am” to show this imagination. Thus, the past subjunctive “were” should be used in place of “am”.
- Hence, “**If I were you**” is the correct substitution.

Thus, the correct sentence will be:

If I were you, I wouldn't take the risk of going to the market.

17. C

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

- *Value* = (noun) how much something is worth in money or other goods for which it can be exchanged.
- *Procedure* = (noun) a way of doing something, especially the usual or correct way.
- *Structure* = (noun) the way in which the parts of something are connected together, arranged or organised.
- *Position* = (noun) the place where someone/something is located.

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

- “*Value*” as a noun means “worth of something”. Thus, option A is incorrect.
- “*Procedure*” as a noun means way of doing things. Thus, option B is incorrect.
- “*Position*” as a noun means “location” of something. Thus, option D is incorrect.
- “*Structure*” as a noun means way in which parts of something is arranged or connected.

Here in the given sentence, it is used to mention that arrangement of atoms present inside oxygen is not same as in that of hydrogen.

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

Thus, the correct sentence will be:

The structure of an atom of oxygen is different from that of an atom of hydrogen.

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

18. C

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

Banish= to order someone to leave a place, especially a country, as a punishment.

E.g.: He was **banished** to Spain, where he died five years later.

Paint = to cover a surface or object with paint.

Scrape = to remove something from a surface by moving something sharp and hard like a knife across it.

Exile = to force someone to leave their country, especially for political reasons or as a punishment

E.g.: He was **exiled** to Sweden as a punishment by the court.

Invent = to produce or design something that has not existed before.

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

19. B

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

- *Were being felt* = is the structure of passive verb used in past continuous tense.
- *Are being felt* = is the structure of passive verb (with plural helping verb) used in present continuous tense.
- *Has been felt* = is the structure of passive verb used in present perfect tense.
- *Is being felt* = is the structure of passive verb (with singular helping verb) used in present continuous tense.

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

- “*Were being felt*” is the structure of passive verb used in past continuous tense. But we need verb that is used in present tense. Thus, option A is incorrect.
- “*Has been felt*” is the structure of passive verb (with singular helping verb) used in present perfect tense. But we need a plural helping verb in accordance with plural subject “effects”. Thus, option C is incorrect.
- “*Is being felt*” is the structure of passive verb (with singular helping verb) used in present continuous tense. But we need a plural helping verb in accordance with plural subject “effects”. Thus, option D is incorrect.
- “*Are being felt*” is the structure of passive verb (with plural helping verb) used in the present continuous tense. Here in the given sentence, the plural helping verb “are” is used for the plural subject “effects”. Also, the use of time word “now” necessitates the use of present tense

in the filler. Continuous aspect of action verb is also reflected in the meaning of the sentence i.e. effects of hike in prices is being experienced “now”.

Thus, "Are *being felt*" becomes the correct word to fill in the blank.

Thus, the correct sentence will be:

The effects of the fuel price hike are being felt severely even now.

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

20. C

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

Discover = to be the first person to become aware that a particular place or thing exists.

E.g.: Scientists around the world are working to **discover** a cure for AIDS.

Shut = to close something.

Close = to put something into a position so that it covers an opening.

Find = to discover someone/something unexpectedly or by chance.

E.g.: We have **found** a great new restaurant near the office.

Search = to look carefully for someone/something

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

21. B

Sol. The given passage is about "**Mobile phone and Mobile Internet**".

“For” as a preposition is used to show the reason. Thus, option A is wrong.

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

“Then” as an adverb is used to refer to a particular time in the past or future. Thus, option D is wrong.

“Than” as a conjunction is used to introduce the second part of a comparison. In the given sentence, it is used to introduce the comparison between “mobile phones” and “computers that powered NASA’s moon missions”.

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

22. C

Sol. The given passage is about "**Mobile phone and Mobile Internet**".

“Harder” is the comparative form of adjective “hard”. It means difficult to do, understand or answer. Thus, option A is wrong.

“Sharper” is the comparative form of adjective “sharp”. It means having a fine edge or point, especially of something that can cut or make hole in something. Thus, option B is wrong.

“Bigger” is the comparative form of adjective “big”. It means large in size. Thus, option D is wrong.

“Smaller” is the comparative form of adjective “small”. It means not large in size. In the given sentence, it is used to compare the size of “smart phones” and “computers”. It mentions that the size of smart phones that are available today are much smaller (i.e. not large) than those computers that were available sixty years ago.

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

23. A

Sol. The given passage is about **“Mobile phone and Mobile Internet”**.

“Faithfully” as an adverb means in a way that shows true commitment. Thus, option B is wrong.

“Productively” as an adverb means in a way that does a lot or achieves a lot. Thus, option C is wrong.

“Predictably” as an adverb means in such a way that you know in advance that something will happen or what it will be like. Thus, option D is wrong.

“Effectively” as an adverb means in a way that produces the intended result or a successful result. In the given sentence, it is used to mention the intended result of “replacement of computers by smart phone”.

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

24. B

Sol. The given passage is about **“Mobile phone and Mobile Internet”**.

“Unavailable” as an adjective means something that cannot be obtained. Thus, option A is wrong.

“Inaccessible” as an adjective means difficult or impossible to reach, get or use. Thus, option C is wrong.

“Expensive” as an adjective means costing a lot of money. Thus, option D is wrong.
“Accessible” as an adjective means something that can be reached, entered, used, seen, etc. In the given sentence, it is used to show the easy and affordable use of the internet services on smart phone.

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

25. B

Sol. The given passage is about “**Mobile phone and Mobile Internet**”.

“Efficiently” as an adverb means in a good and careful way, with no waste of time, money or energy. Thus, option A is wrong.

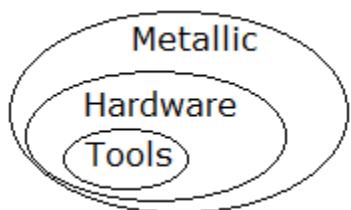
“Importantly” as an adverb is used for saying something is important. Thus, option C is wrong.
“Secondarily” as an adverb means in a way that is less important than something else or happens as a result of something else. Thus, option D is wrong.

“Primarily” as an adverb means “mainly”. In the given sentence, it is used to mention that during the early years of internet over mobile, it was used mainly for the purpose of sending mails via electronic medium.

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

26. C

Sol. न्यूनतम संभावित वेन आरेख होगा:



निष्कर्षः

I. सभी मेटालिक, ट्रूल हैं – यह एक निश्चित मामला नहीं है, इसलिए गलत है।

II. सभी ट्रूल, मेटालिक हैं – यह एक निश्चित मामला है, इसलिए सही है।

इस प्रकार, केवल II अनुसरण करता है।

इसलिए, विकल्प C सही उत्तर है।

27. C

Sol. पैटर्न इस प्रकार है:

$$10.3 \div 1000 = 0.0103$$

इसी प्रकार,

$$2.80 \div 1000 = 0.00280$$

इसलिए, विकल्प C सही उत्तर है।

28. A

Sol. दी गई आकृति विकल्प आकृति (A) में पूरी तरह से अंतर्निहित है जैसा कि नीचे दिखाया गया है;



इसलिए, विकल्प A सही उत्तर है।

29. B

Sol. शीट को खोले जाने के दिए गए पैटर्न को देखने पर हम पाते हैं कि यह नीचे दिखाए अनुसार दिखाई देगी;



इसलिए, विकल्प B सही उत्तर है।

30. C

Sol. तर्क यह है कि पहली संख्या के अंकों का योग, दूसरी संख्या प्राप्त करने के लिए पहली संख्या से घटाया जाता है। इसी प्रकार, तीसरी संख्या प्राप्त करने के लिए दूसरी संख्या के अंकों के योग को दूसरी संख्या से घटाया जाता है।

$$132 - 1 - 3 - 2 = 126 \text{ और } 126 - 1 - 2 - 6 = 117$$

इसी तरह,

$$124 - 1 - 2 - 4 = 117 \text{ और } 117 - 1 - 1 - 7 = 108$$

इसलिए, विकल्प C सही उत्तर है।

31. A

Sol. पैटर्न इस प्रकार है;

U $\xrightarrow{-2}$ S $\xrightarrow{-2}$ Q

N $\xrightarrow{-2}$ L $\xrightarrow{-2}$ J

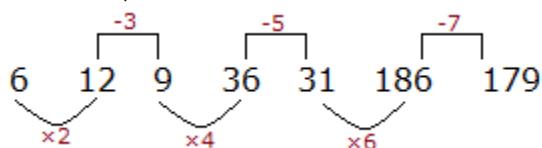
G $\xrightarrow{-2}$ E $\xrightarrow{-2}$ C

Z $\xrightarrow{-2}$ X $\xrightarrow{-2}$ V

इसलिए, विकल्प A सही उत्तर है।

32. D

Sol. पैटर्न इस प्रकार है;



इसलिए, विकल्प D सही उत्तर है।

33. D

Sol. यहां पहला और दूसरा शब्द पर्यायवाची शब्द हैं उसी प्रकार 'top' और 'Peak' पर्यायवाची हैं।

इसलिए, विकल्प D सही उत्तर है।

34. D

Sol. सभी विकल्पों की जांच करने के बाद हम पाते हैं कि विकल्प (D) में दिए गए प्रतीक दिए गए समीकरण को इस प्रकार संतुलित करेंगे;

$$46 \times 12 + 32 \div 8 - (96 + 23) = 437$$

बाईं ओर से हल करने पर, हमें प्राप्त होता है;

$$\rightarrow 46 \times 12 + 32 \div 8 - (96 + 23)$$

$$\rightarrow 46 \times 12 + 4 - (96 + 23)$$

$$\rightarrow 552 + 4 - (96 + 23)$$

$$\rightarrow 552 + 4 - 119$$

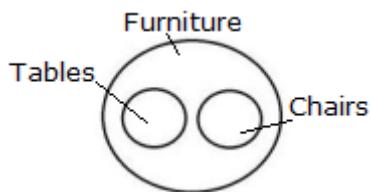
$$\rightarrow 437$$

इस प्रकार, बाईं ओर से = दाईं ओर से

इसलिए, विकल्प D सही उत्तर है।

35. C

Sol. विकल्प (C) में दिए गए वर्गों का संबंध जो कि फर्नीचर, कुर्सियां, मेज है, को नीचे दिए गए वेन-आरेख द्वारा सर्वोत्तम रूप से दर्शाया गया है:



इसलिए, विकल्प C सही उत्तर है।

36. B

Sol. पैटर्न इस प्रकार है:

4 D	15 O	21 U	2 B	12 L	5 E
+2 ↓	+3 ↓	+4 ↓	+5 ↓	+6 ↓	+7 ↓
F 6	R 18	Y 25	G 7	R 18	L 12

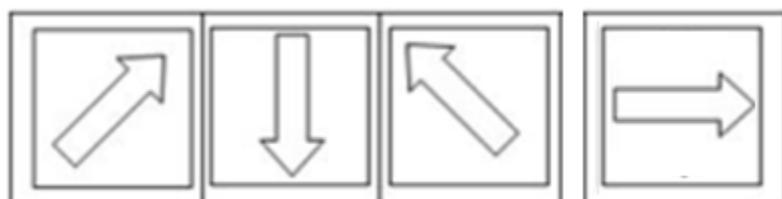
इसी प्रकार,

13 M	5 E	20 T	8 H	25 Y	12 L
+2 ↓	+3 ↓	+4 ↓	+5 ↓	+6 ↓	+7 ↓
O 15	H 8	X 24	M 13	E 5	S 19

इसलिए, विकल्प B सही उत्तर है।

37. B

Sol. तर्क: तीर दक्षिणावर्त दिशा में 90 डिग्री घूमता है। इस प्रकार विकल्प आकृति (B) शरूंखला को पूरा करेगा;



इसलिए, विकल्प B सही उत्तर है।

38. B

Sol. दिए गए राज्यों की भारत के मानचित्र पर उनकी भौगोलिक स्थिति के अनुसार व्यवस्था इस प्रकार है:

5. केरल

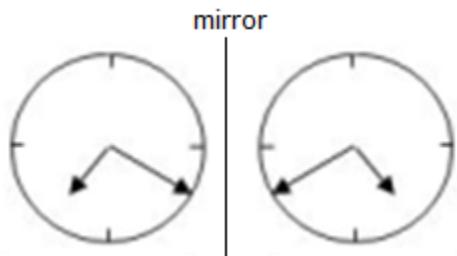
3. कर्नाटक

1. महाराष्ट्र
4. गुजरात
2. राजस्थान

इसलिए, विकल्प B सही उत्तर है।

39. B

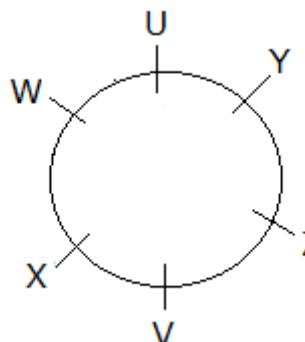
Sol. सही दर्पण छवि होगी:



इसलिए, विकल्प B सही उत्तर है।

40. A

Sol. दी गई जानकारी के अनुसार व्यवस्था इस प्रकार होगी:

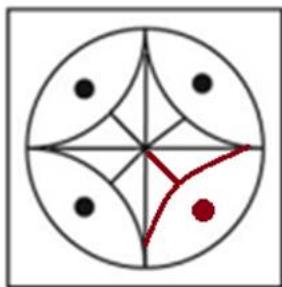


स्पष्ट रूप से, Z, V की दाईं ओर बैठा है।

इसलिए, विकल्प A सही उत्तर है।

41. C

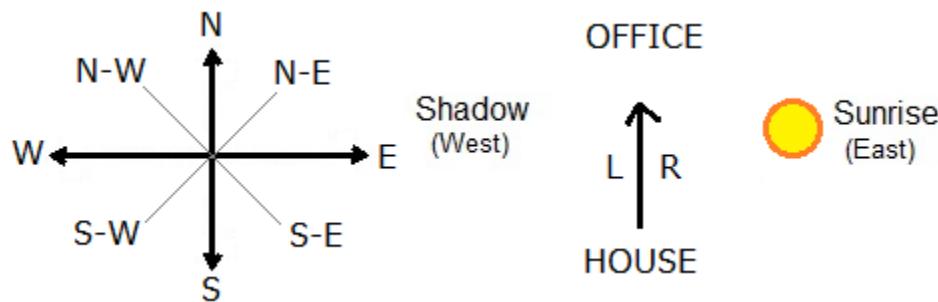
Sol. स्पष्ट रूप से, दिए गए पैटर्न को विकल्प आकृति (C) द्वारा पूरा किया गया है जैसा कि नीचे दिखाया गया है:



इसलिए, विकल्प C सही उत्तर है।

42. C

Sol. जैसा कि हम जानते हैं कि सूर्योदय के समय, किसी वस्तु की छाया हमेशा पश्चिम की ओर ही रहती है।



इसलिए, विकल्प C सही उत्तर है।

43. A

Sol. पैटर्न इस प्रकार है:

29	21	19	20	15	13	5	18
C	U	S	T	O	M	E	R
-4	-4	+4	+4	-4	-4	+4	+4
Y	Q	W	X	K	I	I	V
25	17	23	24	11	9	9	22

इसी प्रकार,

29	15	13	13	5	18	3	9	27	12
C	O	M	M	E	R	C	I	A	L
-4	-4	+4	+4	-4	-4	+4	+4	-4	-4
Y	K	Q	Q	A	N	G	M	W	H
25	11	17	17	1	14	7	13	23	8

इसलिए, विकल्प A सही उत्तर है।

44. A

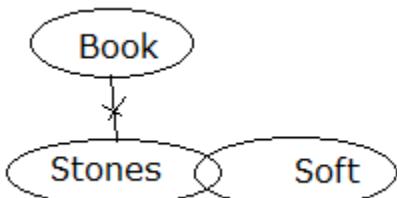
Sol. यहां अनुसरण किया गया पैटर्न है; (-4, -2, -4, -2)....

अतः लुप्त संख्या होगी $(13 - 2) = 11$

इसलिए, विकल्प A सही उत्तर है।

45. C

Sol. न्यूनतम संभावित वेन आरेख होगा:



निष्कर्षः

I. कोई बुक, सॉफ्ट नहीं है – यह एक निश्चित मामला नहीं है, इसलिए गलत है।

II. कुछ बुक्स, सॉफ्ट हैं – यह एक निश्चित मामला नहीं है, इसलिए गलत है।

इस प्रकार, न तो निष्कर्ष | न ही || अनुसरण करता है।

इसलिए, विकल्प C सही उत्तर है।

46. C

Sol. यहां अक्षरों को वर्णमाला क्रम के अनुसार बाएं से दाएं उल्टे क्रम में व्यवस्थित किया गया है।

GLADIATOR -> TROLIGDAA

इसी प्रकार,

SKILLFUL -> USLLLKIF

इसलिए, विकल्प C सही उत्तर है।

47. C

Sol. जिस प्रकार 'हेक्टेयर' 'क्षेत्रफल' की एसआई इकाई है, उसी तरह 'पास्कल' 'दबाव' की एसआई इकाई है।

इसलिए, विकल्प C सही उत्तर है।

48. B

Sol. वर्णानुक्रम के अनुसार विपरीत अक्षर युग्म इस प्रकार हैं:

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

अब,

T - G (7)
I - R (18)
C - X (24)
K - P (16)
B - Y (25)
O - L (12)
X - C (3)

तो, $7+18+24+16+25+12+3 = 105$; अब परिणाम के लिए (+1) जोड़ें

$$105 + 1 = 106$$

इसी प्रकार, RELEASE को 125 के रूप में कूटबद्ध किया जाता है

अतः,

P - K(11)
A - Z(26)
C - X(24)
K - P(16)
A - Z(26)
G - T(20)
E - V(22)

तो, $11+26+24+16+26+20+22 = 145$; अब परिणाम के लिए (+1) जोड़ें

$$145 + 1 = 146$$

इसलिए, विकल्प B सही उत्तर है।

49. D

Sol. पैटर्न इस प्रकार है:

N	O	T	E	C	A	R	D
$1+4 =$ 5	$1+5 =$ 6	$2+0 =$ 2	5	3	1	$1+8 =$ 9	4

इसी प्रकार,

O	P	E	N	M	I	N	D
$1+5 =$ 6	$1+6 =$ 7	5	$1+4 =$ 5	$1+3 =$ 4	9	$1+4 =$ 5	4

इस प्रकार,

H	A	R	D	C	O	R	E
8	1	$1+8 =$ 9	4	3	$1+5 =$ 6	$1+8 =$ 9	5

इसलिए, विकल्प D सही उत्तर है।

50. C

Sol. सभी विकल्पों की जांच करने पर हम पाते हैं कि समीकरण विकल्प (C) में दिए गए प्रतीकों द्वारा संतुलित होता है;

$$72 + 36 \div 12 \times 13 - 48 = 63$$

बाईं ओर से हल करने पर, हमें प्राप्त होता है;

$$72 + 3 \times 13 - 48$$

$$72 + 39 - 48 = > 63$$

तो, बाईं ओर से = दाईं ओर से

इसलिए, विकल्प C सही उत्तर है।

51. B

Sol. माना धन का योग P है।



$$\text{कुल समय} = 15 + 15 = 30 \text{ वर्ष}$$

इसलिए, 30 वर्षों में यह स्वयं का चार गुना हो जाएगा।

अतः विकल्प B सही है।

52. A

Sol. माना आयत की लंबाई l और आयत की चौड़ाई b है।

हम जानते हैं कि:

$$\text{आयत का क्षेत्रफल} = \text{लंबाई} \times \text{चौड़ाई}$$

$$= lb$$

$$\text{नई लंबाई} = (l) \times \frac{(100 + 80)}{100} = (l) \times \frac{180}{100} = \frac{9l}{5}$$

माना आयत की नई चौड़ाई y है।

अब,

$$\left(\frac{9l}{5}\right) \times y = lb$$

$$\Rightarrow y = \frac{5lb}{9l}$$

$$\Rightarrow y = \frac{5b}{9}$$

$$\text{इसलिए, समान क्षेत्रफल बनाए रखने के लिए चौड़ाई में अपेक्षित प्रतिशत कमी} = \frac{\left(b - \frac{5b}{9}\right)}{b} \times 100$$

$$= \frac{(9b - 5b)}{9b} \times 100$$

$$= \frac{4b}{9b} \times 100$$

$$= 44.44\%$$

अतः विकल्प A सही है।

53. B

Sol. माना P, Q, R और S का हिस्सा $3x$, $4x$, $5x$ और $6x$ है।

प्रश्न के अनुसार,

$$\Rightarrow 5x - 4x = 500$$

$$\Rightarrow x = 500$$

इसलिए, उनके सभी शेयरों का योग = $3x + 4x + 5x + 6x$

$$= (18x)$$

$$= 18 \times 500$$

$$= 9000 \text{ रुपये}$$

अतः विकल्प B सही है।

54. B

Sol. 2012 और 2013 में दसवीं कक्षा की परीक्षा में बैठने वाले लड़कों की कुल संख्या = $250 + 300 = 550$

2012 और 2015 में दसवीं कक्षा की परीक्षा में बैठने वाली लड़कियों की कुल संख्या = $325 + 325 = 650$

इसलिए अभीष्ट अनुपात = $550 : 650 = 11 : 13$

अतः विकल्प B सही है।

55. D

Sol. 2011, 2013 और 2015 में उपस्थित होने वाले लड़कों की संख्या का औसत = $\frac{225 + 300 + 375}{3} = \frac{900}{3} = 300$

2012 में उपस्थित होने वाली लड़कियों की संख्या = 325

इसलिए, अभीष्ट प्रतिशत = $\frac{(325 - 300)}{325} \times 100 = \frac{25}{325} \times 100 = 7.7\%$

अतः विकल्प D सही है।

56. D

Sol. 2012, 2013 और 2015 में उपस्थित होने वाली लड़कियों की कुल संख्या = $325 + 350 + 325 = 1000$

सभी पांच वर्षों में उपस्थित होने वाले लड़कों की कुल संख्या = $225 + 250 + 300 + 280 + 375 = 1430$

$$\text{इसलिए, अभीष्ट प्रतिशत} = \frac{(1430 - 1000)}{1430} \times 100 = \frac{430}{1430} \times 100 = 30.1\%$$

अतः विकल्प D सही है।

57. B

Sol. दिया गया है कि:

$$\text{दूरी} = x \text{ किमी}$$

$$\text{गति } S_1 = 5 \frac{5}{9} \text{ मी/सेकंड} = \frac{50}{9} \times \frac{18}{5} = 20 \text{ किमी/घंटा}$$

$$\text{गति } S_2 = 5 \text{ मीटर/सेकंड} = 5 \times \frac{18}{5} = 18 \text{ किमी/घंटा}$$

$$\text{समय} = 7 \frac{3}{5} = \frac{38}{5} \text{ घंटे}$$

हम जानते हैं कि:

$$\text{समय} = \frac{\text{distance}}{\text{speed}}$$

प्रश्न के अनुसार,

$$\Rightarrow \frac{x}{20} + \frac{x}{18} = \frac{38}{5}$$

$$\Rightarrow \frac{9x + 10x}{180} = \frac{38}{5}$$

$$\Rightarrow \frac{19x}{180} = \frac{38}{5}$$

$$\Rightarrow x = \frac{38}{5} \times \frac{180}{19}$$

$$\Rightarrow x = 72 \text{ किमी}$$

इसलिए, x का मान 72 किमी है।

अतः विकल्प B सही है।

58. B

Sol. माना कि तीन धनात्मक संख्याएँ a, b और c हैं।

दिया गया है की:

$$\frac{a+b}{2} + c = 154$$

$$\Rightarrow a + b + 2c = 308 \dots \text{समीकरण 1}$$

$$\frac{b+c}{2} + a = 148$$

$$\Rightarrow b + c + 2a = 296 \dots \text{समीकरण 2}$$

$$\frac{c+a}{2} + b = 132$$

$$\Rightarrow c + a + 2b = 264 \dots \text{समीकरण 3}$$

समीकरण 1, समीकरण 2 और समीकरण 3 को जोड़ने पर,

$$\Rightarrow 4a + 4b + 4c = 868$$

$$\Rightarrow a + b + c = \frac{868}{4}$$

$$\Rightarrow a + b + c = 217$$

अब, तीन संख्याओं का अभीष्ट औसत = $\frac{a+b+c}{3} = \frac{217}{3} = 72\frac{1}{3}$

अतः विकल्प B सही है।

59. B

Sol. माना कुल कार्य = 15 का LCM, 20 = 60 इकाई

$$A \text{ द्वारा एक दिन में किया गया कार्य} = \frac{60}{15} = 4 \text{ इकाई}$$

$$B \text{ द्वारा एक दिन में किया गया कार्य} = \frac{60}{20} = 3 \text{ इकाई}$$

$$\text{इसलिए, उसी कार्य का 35\% पूरा करने के लिए अपेक्षित समय} = \frac{60 \times \left(\frac{35}{100}\right)}{(4 + 3)}$$

$$= \frac{21}{7}$$

$$= 3 \text{ दिन}$$

अतः विकल्प B सही है।

60. B

Sol. हम जानते हैं कि:

$$\text{मानक विचलन} = \sqrt{\text{variance}}$$

$$= \sqrt{0.81}$$

$$= 0.9$$

$$\text{इसलिए, मानक विचलन} = 0.9$$

अतः विकल्प B सही है।

61. B

Sol. माना दो ट्रेनों की गति $5x$ और $8x$ है।

हम जानते हैं कि:

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

$$\text{दूसरी ट्रेन की गति} = \frac{400}{4} = 100 \text{ किमी/घंटा}$$

$$\text{इसलिए, पहली ट्रेन की गति} = \frac{100}{8x} \times (5x) = 62.5 \text{ किमी/घंटा}$$

अतः विकल्प B सही है।

62. A

Sol. माना वस्तु का क्रय मूल्य x रुपये है।

हम जानते हैं कि:

$$\frac{\text{Cost price}}{\text{marked price}} = \frac{(100 - \text{discount}\%)}{(100 + \text{profit}\%)}$$

$$\Rightarrow \frac{x}{4450} = \frac{(100 - 15)}{(100 + 15)}$$

$$\Rightarrow x = \frac{4450 \times 85}{115}$$

$$\Rightarrow x = 3289 \text{ रुपये}$$

अतः विकल्प A सही है।

63. D

Sol. $\left[\left\{ \left(3 - \frac{2}{1 + \frac{1}{4 + \frac{2}{3}}} \right) \text{of} 1 \frac{13}{21} \div 3 \frac{2}{7} \right\} - \frac{1}{3} \right] \times \frac{9}{10} \text{ का मान,}$

BODMAS नियमों का प्रयोग करके –

$$= \left[\left\{ \left(3 - \frac{2}{1 + \frac{1}{1 + \frac{14}{3}}} \right) \text{ of } \frac{34}{21} \div \frac{23}{7} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$$

$$= \left[\left\{ \left(3 - \frac{2}{1 + \frac{3}{14}} \right) \times \frac{34}{21} \times \frac{7}{23} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$$

$$= \left[\left\{ \left(3 - \frac{2 \times 14}{17} \right) \times \frac{34}{21} \times \frac{7}{23} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$$

$$= \left[\left\{ \left(\frac{51 - 28}{17} \right) \times \frac{34}{21} \times \frac{7}{23} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$$

$$= \left[\left\{ \frac{23}{17} \times \frac{34}{21} \times \frac{7}{23} \right\} - \frac{1}{3} \right] \times \frac{9}{10}$$

$$= \left[\frac{2}{3} - \frac{1}{3} \right] \times \frac{9}{10}$$

$$= \frac{1}{3} \times \frac{9}{10}$$

$$= \frac{3}{10}$$

अतः विकल्प D सही है।

64. B

Sol. माना कि दो संख्याएँ x और y हैं।

हम जानते हैं कि:

$$\text{पहली संख्या} \times \text{दूसरी संख्या} = \text{LCM} \times \text{HCF}$$

$$\Rightarrow (x) \times (y) = 48 \times 12$$

$$\Rightarrow xy = 576$$

इसलिए, इन संख्याओं के गुणनफल के वर्गमूल का अपेक्षित मान = $\sqrt{xy} = \sqrt{576} = 24$

अतः विकल्प B सही है।

65. A

Sol. माना स्कूल में लड़कों और लड़कियों की संख्या $35x$ और $39x$ है।

दिया गया है की:

$$\Rightarrow \frac{(35x) + (39x)}{2} = 740$$

$$\Rightarrow \frac{74x}{2} = 740$$

$$\Rightarrow x = \frac{740 \times 2}{74}$$

$$\Rightarrow x = 20$$

इसलिए, लड़कियों की संख्या = $39x = 39 \times 20 = 780$

अतः विकल्प A सही है।

66. D

Sol. $\frac{2}{3} \div \left[\frac{5}{3} \text{ of } 300 + 7\frac{1}{2} \div 5\frac{1}{2} \times 1100 \right]$ के $500 \div \frac{3}{8}$ का मान

BODMAS नियमों का प्रयोग करके –

$$= \frac{500 \times \frac{8}{3} \times \frac{3}{2}}{\left[\frac{5}{3} \times 300 + \frac{15}{2} \times \frac{2}{11} \times 1100 \right]}$$

$$= \frac{2000}{[500 + 1500]}$$

$$= \frac{2000}{2000}$$

$$= 1$$

अतः विकल्प D सही है।

67. C

Sol. हम जानते हैं कि:

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

$$= 388 \times \frac{100}{(100 - 3)}$$

$$= 388 \times \frac{100}{97}$$

$$= 400 \text{ रुपये}$$

$$\text{इसलिए, } 8\% \text{ का लाभ प्राप्त करने के लिए विक्रय मूल्य} = 400 \times \frac{(100 + 8)}{100} = 400 \times \frac{108}{100} = 432 \text{ रुपये}$$

अतः विकल्प C सही है।

68. D

Sol. माना वृत्त की तिरज्या x सेमी है।

हम जानते हैं कि:

$$\text{वृत्त का क्षेत्रफल} = \pi r^2$$

$$= \pi(x)^2$$

$$\text{यदि वृत्त की तिरङ्गा में 19\% की वृद्धि की जाती है, तो नए वृत्त की तिरङ्गा} = (x) \times \frac{(100 + 19)}{100} = \frac{119x}{100}$$

$$\text{नए वृत्त का क्षेत्रफल} = \pi \times \left(\frac{119x}{100} \right) \times \left(\frac{119x}{100} \right) = \frac{14161\pi(x)^2}{10000}$$

$$\text{इसलिए, अभीष्ट प्रतिशत} = \frac{\left(\frac{14161\pi(x)^2}{10000} - \pi x^2 \right)}{\pi x^2} \times 100$$

$$= \frac{\left(\frac{14161\pi(x)^2 - 10000\pi x^2}{10000} \right)}{\pi x^2} \times 100$$

$$= \frac{4161}{10000} \times 100$$

$$= 41.61\%$$

अतः विकल्प D सही है।

69. B

Sol. प्रश्न के अनुसार,

$$\Rightarrow \frac{21-x}{22-x} = \frac{60-x}{64-x}$$

$$\Rightarrow 1344 - 64x - 21x + x^2 = 1320 - 22x - 60x + x^2$$

$$\Rightarrow 1344 - 85x = 1320 - 82x$$

$$\Rightarrow 85x - 82x = 1344 - 1320$$

$$\Rightarrow 3x = 24$$

$$\Rightarrow x = 8$$

हम जानते हैं कि:

यदि दो संख्याएँ x और y हैं, तो माध्य आनुपातिक $= \sqrt{xy}$

$$= \sqrt{(x-2)(2x+8)}$$

$$= \sqrt{(8-2)(2(8)+8)}$$

$$= \sqrt{6 \times 24}$$

$$= 12$$

अतः विकल्प B सही है।

70. A

Sol. माना कुल मतदाता x है।

$$\text{पुरुष मतदाताओं की संख्या} = (x) \times \frac{60}{100} = \frac{3x}{5}$$

$$\text{महिला मतदाताओं की संख्या} = x - \frac{3x}{5} = \frac{2x}{5}$$

$$\text{साक्षर पुरुषों की संख्या} = \frac{3x}{5} \times \frac{(100-40)}{100} = \frac{3x}{5} \times \frac{60}{100} = \frac{9x}{25}$$

$$\text{निरक्षर महिलाओं की संख्या} = \frac{2x}{5} \times \frac{(100-25)}{100} = \frac{2x}{5} \times \frac{75}{100} = \frac{3x}{10}$$

$$\text{इसलिए, अभीष्ट प्रतिशत} = \frac{\left(\frac{9x}{25} - \frac{3x}{10}\right)}{\left(\frac{3x}{10}\right)} \times 100$$

$$= \frac{\left(\frac{18x - 15x}{50} \right)}{\left(\frac{3x}{10} \right)} \times 100$$

$$= \frac{3x}{50} \times \frac{10}{3x} \times 100$$

$$= 20\%$$

अतः विकल्प A सही है।

71. C

Sol. माना मूलधन x रुपये है।

हम जानते हैं कि:

$$\text{साधारण ब्याज} = \frac{P \times R \times T}{100}$$

प्रश्न के अनुसार,

$$\Rightarrow \frac{(x) \times 12.5 \times 1}{100} - \frac{(x) \times 8 \times 1}{100} = 459$$

$$\Rightarrow \frac{12.5x - 8x}{100} = 459$$

$$\Rightarrow \frac{4.5x}{100} = 459$$

$$\Rightarrow x = \frac{459 \times 100}{4.5}$$

$$\Rightarrow x = 10200 \text{ रुपये}$$

इसलिए, मूल राशि 10200 रुपये है।

अतः विकल्प C सही है।

72. C

Sol. A, 60% कार्य को = 9 दिनों में पूरा कर सकता है

$$A \text{ कार्य का } 100\% = \frac{9}{60} \times 100 = 15 \text{ दिनों में पूरा कर सकता है}$$

B उस कार्य को = 7 दिनों में पूरा कर सकता है

$$\text{इसलिए, A और B द्वारा कार्य को पूरा करने के लिए अपेक्षित समय} = \frac{A \times B}{(A + B)}$$

$$= \frac{15 \times 7.5}{(15 + 7.5)}$$

$$= \frac{15 \times 7.5}{22.5}$$

$$= 5 \text{ दिन}$$

अतः विकल्प C सही है।

73. A

Sol. हम जानते हैं कि:

$$\text{चारों दीवारों का क्षेत्रफल} = 2(l + b)h$$

$$= 2(25 + 12)6$$

$$= 2 \times 37 \times 6$$

$$= 444 \text{ मी}^2$$

$$\text{टंकी के तल का क्षेत्रफल} = l \times b$$

$$= 25 \times 12$$

$$= 300 \text{ मी}^2$$

$$\text{इसलिए, अभीष्ट कुल लागत} = (444 + 300) \times 15$$

$$= 744 \times 15$$

$$= 11160 \text{ रुपये}$$

अतः विकल्प A सही है।

74. A

Sol. माना पहली बाइक का क्रय मूल्य x रुपये है।

$$\text{दूसरी बाइक का क्रय मूल्य} = (50000 - x) \text{ रुपये}$$

प्रश्न के अनुसार,

$$\Rightarrow (x) \times \frac{(100 + 20)}{100} = (50000 - x) \times \frac{(100 - 20)}{100}$$

$$\Rightarrow (x) \times \frac{120}{100} = (50000 - x) \times \frac{80}{100}$$

$$\Rightarrow \frac{6x}{5} + \frac{4x}{5} = 40000$$

$$\Rightarrow \frac{10x}{5} = 40000$$

$$\Rightarrow x = 40000 \times \frac{5}{10}$$

$$\Rightarrow x = 20000 \text{ रुपये}$$

इसलिए, बाइक का क्रय मूल्य 20000 रुपये था।

अतः विकल्प A सही है।

75. A

Sol. माना कक्षा B में विद्यार्थियों की संख्या x है।

$$\text{कक्षा A में छात्रों की संख्या} = (x) \times \frac{(100 + 40)}{100} = \frac{140x}{100} = \frac{7x}{5}$$

दिया गया है की:

$$\Rightarrow x + \frac{7x}{5} = 72$$

$$\Rightarrow \frac{5x + 7x}{5} = 72$$

$$\Rightarrow \frac{12x}{5} = 72$$

$$\Rightarrow x = \frac{5 \times 72}{12}$$

$$\Rightarrow x = 30$$

कक्षा B में छात्रों की संख्या = 30

कक्षा A में छात्रों की संख्या = $72 - 30 = 42$

अब,

माना A का औसत अंक y है।

$$B \text{ का औसत अंक} = (y) \times \frac{(100 + 50)}{100} = (y) \times \frac{150}{100} = \frac{3y}{2}$$

प्रश्न के अनुसार,

$$\Rightarrow 42 \times y + 30 \times \frac{3y}{2} = 72 \times 58$$

$$\Rightarrow 42y + 45y = 72 \times 58$$

$$\Rightarrow 87y = 72 \times 58$$

$$\Rightarrow y = \frac{72 \times 58}{87}$$

$$\Rightarrow y = 48$$

$$\text{इसलिए, } B \text{ के औसत अंक} = \frac{3y}{2} = \frac{3 \times 48}{2} = 72$$

अतः विकल्प A सही है।

76. C

Sol. • 19 सितंबर, 1960 को भारत और पाकिस्तान के बीच सिंधु जल संधि पर हस्ताक्षर किए गए थे।

- विश्व बैंक की मदद से नौ वर्ष की बातचीत के बाद दोनों देशों के बीच संधि पर हस्ताक्षर किए गए।
- इस पर कराची में भारतीय प्रधानमंत्री जवाहरलाल नेहरू और पाकिस्तानी राष्ट्रपति अयूब खान द्वारा हस्ताक्षर किए गए थे।
- यह संधि पश्चिमी नदियों (सिंधु, झेलम, चिनाब) को पाकिस्तान और पूर्वी नदियों (रावी, ब्यास, सतलुज) को भारत मेंबांटती है।

77. B

Sol. • विकल्प B सही उत्तर है।

- दबाव के 1 वातावरण में बर्फ का गलनांक 0 °C (32 °F; 273 K) के काफी समीप होता है। इसे बर्फ बिंदु के रूप में भी जाना जाता है।
- किसी पदार्थ का गलनांक वह तापमान होता है जिस पर वह ठोस से द्रव अवस्था में परिवर्तित होता है।

78. B

Sol. • 1983 क्रिकेट विश्व कप क्रिकेट विश्व कप टूर्नामेंट का तीसरा संस्करण था।

- यह 9 से 25 जून 1983 तक इंग्लैंड और वेल्स में आयोजित किया गया था।
- भारत ने फाइनल में वेस्टइंडीज को 43 रन से हराकर यह विश्व कप जीता था।
- भारत ने दो बार (1983, 2011) क्रिकेट विश्व कप जीता।

79. D

Sol. • औरंगाबाद शहर (महाराष्ट्र) की स्थापना मलिक अंबर (अनबर) ने 1610 में की थी।

- इसे मूल रूप से खड़की के नाम से जाना जाता था।
- 1633 में निजाम शाही वंश के पतन के बाद यह शहर मुगल शासन के अधीन आ गया।
- मुगल शासन के अधीन आने पर औरंगजेब द्वारा शहर का नाम बदलकर औरंगाबाद कर दिया गया।

80. B

Sol. • सिनेबार पारे का प्रमुख अयस्क है।

- इसका रंग चमकीला लाल होता है।
- यह आमतौर पर भूगर्भीय रूप से हाल की ज्वालामुखी गतिविधि के आसपास की चट्टानों में बनता है।
- पारा एक रासायनिक तत्व है जिसका प्रतीक Hg और परमाणु क्रमांक 80 है।
- इसे आमतौर पर विवक्सिल्वर के नाम से जाना जाता है।

81. A

Sol. • 'इमेजिनरी होमलैंड्स' सलमान रुश्दी द्वारा लिखित निबंधों का एक संग्रह है।

- सलमान रुश्दी एक ब्रिटिश-अमेरिकी उपन्यासकार और भारतीय मूल के निबंधकार हैं।
- उनके दूसरे उपन्यास "मिडनाइट्स चिल्ड्रन (1981)" ने 1981 में बुकर पुरस्कार जीता।

82. D

Sol. • पोनू योक्सी (Ponu Yoksi) एक ऐसा वाद्य यंत्र है जो नुकीले धार वाली तलवार की तरह दिखता है।

- अरुणाचल प्रदेश में पुजारियों द्वारा किए जाने वाले औपचारिक नृत्यों के दौरान पोनू योक्सी का उपयोग किया जाता है।
- पेमा खांडू अरुणाचल प्रदेश के वर्तमान मुख्यमंत्री हैं।
- बी.डी. मिश्रा अरुणाचल प्रदेश के वर्तमान राज्यपाल हैं।

83. D

Sol. • 1996 में, भारत सरकार ने उद्योग मंत्रालय के तहत एक विनिवेश आयोग की स्थापना की।

- इसकी अध्यक्षता जी.वी रामकृष्ण ने की।

• आयोग की स्थापना भारतीय सार्वजनिक क्षेत्र के उपकरणों (PSU) के क्रमिक विनिवेश की सलाह, प्रचार, पर्यवेक्षण और निगरानी के लिए की गई थी।

84. A

Sol. • अयोध्या उत्तर प्रदेश में पवित्र सरयू नदी के तट पर स्थित है।

- इसे साकेत के नाम से भी जाना जाता है।
- यह भगवान राम की जन्मभूमि है। अयोध्या प्राचीन कोसल साम्राज्य की राजधानी हुआ करती थी।

- सरयू नदी उत्तराखण्ड के बागेश्वर में नंदा कोट पर्वत के दक्षिण में एक छोटी से निकलती है।

85. C

Sol. • 'बालचाओ' और 'सोरपोटेल' गोवा के पारंपरिक व्यंजन हैं।

- गोवा का मुख्य भोजन चावल और मछली करी है।
- प्रमोद सावंत गोवा के वर्तमान मुख्यमंत्री हैं।
- पी.एस. शरीधरन पिल्लई गोवा के वर्तमान राज्यपाल हैं।

86. B

Sol. • बागुरुम्बा (**Bagurumba**) असम और पूर्वोत्तर भारत में स्वदेशी बोडो जनजाति का लोक नृत्य है।

- यह एक पारंपरिक नृत्य है जो परंपरागत रूप से एक पीढ़ी से दूसरी पीढ़ी में निहित है।
- बागुरुम्बा नृत्य बोडो महिलाओं द्वारा किया जाता है।

87. B

Sol. • भारत के संविधान के नियम 193 के तहत लोकसभा चर्चा में सदन के समक्ष औपचारिक प्रस्ताव शामिल नहीं होता है।

- इसलिए इस नियम के तहत मामलों पर चर्चा के बाद कोई मतदान नहीं हो सकता है।
- भारत के संविधान के अनुच्छेद 79 के अनुसार, भारत की संसद में भारत के राष्ट्रपति और संसद के दो सदन होते हैं जिन्हें राज्यों की परिषद (राज्य सभा) और लोक सभा (लोक सभा) के रूप में जाना जाता है।
- लोकसभा संसद का निचला सदन है।
- ओम बिरला लोकसभा के 17वें और वर्तमान अध्यक्ष हैं।

88. D

Sol. • CITES (वन्य जीवों और वनस्पतियों की लुप्तप्राय प्रजातियों में अंतर्राष्ट्रीय व्यापार पर कन्चेशन) लुप्तप्राय पौधों और जानवरों की रक्षा के लिए एक बहुपक्षीय संधि है।

- भारत 1975 में CITES का हस्ताक्षरकर्ता बना।
- इसकी स्थापना 1973 में हुई थी।
- यह 1 जुलाई 1975 को लागू हुआ।

- CITES सचिवालय को UNEP (संयुक्त राष्ट्र पर्यावरण कार्यक्रम) द्वारा प्रशासित किया जाता है और इसका मुख्यालय जिनेवा, स्विट्जरलैंड में है।

89. D

Sol. • मुहरी भारत और बांग्लादेश के बीच एक अंतर्राष्ट्रीय नदी है।

- इसका उद्गम तिरपुरा की लुशाई पहाड़ियों में होता है।

- मुहरी नदी को लिटिल फेनी के नाम से भी जाना जाता है।

90. D

Sol. • 28 जनवरी, 1894 को असम में पथरुघाट किसान विद्रोह हुआ था।

- पथरुघाट असम के दरांग जिले का एक छोटा सा गांव है।

- पथरुघाट को असम के जलियांवाला बाग के नाम से जाना जाता है।

- यह विद्रोह औपनिवेशिक प्रशासन द्वारा लगाए गए भू-राजस्व में उच्च कराधान के विरोध में किया गया था।

91. D

Sol. • गाय जुगाली करने वाला जानवर है।

- जुगाली करने वाले खुरदार स्तनधारी होते हैं जिनके पास एक अद्वितीय पाचन तंत्र होता है जो उन्हें अन्य शाकाहारी जीवों की तुलना में रेशेदार पौधों की सामग्री से ऊर्जा का बेहतर उपयोग करने की अनुमति देता है।

- इन जानवरों में मवेशी, भेड़, भैंस, मृग, जिराफ और ऊंट शामिल हैं।

92. B

Sol. • सोल्डर लेड और टिन का मिश्रधातु है।

- यह एक गलनीय मिश्र धातु है।

- इसका उपयोग धातु के वर्कपीस के बीच एक स्थायी बंधन बनाने के लिए किया जाता है।

- लेड एक रासायनिक तत्व है जिसका प्रतीक Pb और परमाणु क्रमांक 82 है।

93. A

Sol. • सौरभ चौधरी एक भारतीय इक्का शूटर है।

- उन्होंने 2018 एशियाई खेलों में 10 मीटर एयर पिस्टल में स्वर्ण पदक जीता।

• वह एशियाई खेलों में सबसे कम आयु के भारतीय स्वर्ण पदक विजेता थे।

• वह ISSF विश्व चैम्पियनशिप, ISSF विश्व कप, युवा ओलंपिक खेलों, एशियाई खेलों और एशियाई एयर गन चैम्पियनशिप में स्वर्ण पदक जीतने वाले एकमात्र भारतीय निशानेबाज हैं।

94. A

Sol. • भारतीय कलाकार प्रदीप पुथुर को वर्ष 2019 में दूसरी बार जैक्सन पोलक फेलोशिप प्राप्त हुई।

• इससे पहले उन्हें 2003 में फेलोशिप मिली थी।

• उन्हें 1992 में 27 वर्ष की आयु में 'एयर एयरी' नामक पैटिंग के लिए ललित कला अकादमी राष्ट्रीय पुरस्कार मिला।

• 2005 में, उन्होंने फ्लोरेंस बिएननेल, इटली में भारत का प्रतिनिधित्व किया।

• फेलोशिप का नाम अमृत अभियक्तिवादी चित्रकार जैक्सन पोलक के नाम पर रखा गया है।

• फेलोशिप की स्थापना पोलक क्रास्नर फाउंडेशन द्वारा की गई थी।

• इसका मुख्यालय न्यूयॉर्क, अमेरिका में है।

95. A

Sol. • अटल बिहारी वाजपेयी ने 1999 में पाकिस्तान के साथ शांति घोषणा पर हस्ताक्षर करने के लिए लाहौर की बस यात्रा की।

• अटल बिहारी वाजपेयी ने भारत के प्रधानमंत्री के रूप में तीन कार्यकालों की सेवा की।

• वह भारतीय जनता पार्टी (भाजपा) के सह-संस्थापक और वरिष्ठ नेता थे।

• वह पहले भारतीय प्रधानमंत्री थे, जो भारतीय राष्ट्रीय कांग्रेस के नहीं थे, जिन्होंने कार्यालय में पूर्ण कार्यकाल पूरा किया।

• प्रधानमंत्री के रूप में उनके कार्यकाल के दौरान भारत ने 1998 में पोखरण-द्वितीय परमाणु परीक्षण किया।

96. D

Sol. • फरवरी 2019 के अनुसार भारत कृषि उत्पादों का दूसरा सबसे बड़ा उत्पादक है।

• चीन विश्व में कृषि उत्पादों का सबसे बड़ा उत्पादक है।

• भारत चावल, गेहूं, गन्ना, कपास, मूँगफली और फलों एवं सब्जियों का विश्व का दूसरा सबसे बड़ा उत्पादक है।

• इसने 2019 तक पिछले दशक तक विश्व की 25% दालों का भी उत्पादन किया।

• भारत विश्व में दूध, दाल और जूट का सबसे बड़ा उत्पादक है।

- अमेरिका और चीन के बाद भारत विश्व की तीसरी सबसे बड़ी अर्थव्यवस्था है।

97. A

Sol. • विश्व आर्थिक मंच (WEF) द्वारा 9 अक्टूबर, 2022 को जारी वैश्विक प्रतिस्पर्धात्मकता सूचकांक, 2019 में भारत 68वें स्थान पर था।

- प्रबंधन विकास संस्थान (IMD) द्वारा संकलित वार्षिक विश्व प्रतिस्पर्धात्मकता सूचकांक 2021 में भारत को 43वां स्थान दिया गया था।
- विश्व आर्थिक मंच (WEF) एक अंतर्राष्ट्रीय संगठन है।
- इसका मुख्यालय जिनेवा, स्विट्जरलैंड में है।
- इसकी स्थापना 24 जनवरी 1971 को जर्मन इंजीनियर और अर्थशास्त्री क्लॉस श्वाब ने की थी।

98. D

Sol. • सोडियम क्लोराइड का उपयोग परिरक्षक के रूप में किया जाता है।

- नमक एक परिरक्षक के रूप में प्रभावी है क्योंकि यह खाद्य पदार्थों की जल गतिविधि को कम करता है।
- सोडियम क्लोराइड एक आयनिक यौगिक है जिसका रासायनिक सूत्र NaCl है।

99. D

Sol. • कपिलेंद्र देव (1434-1467 ई.) सूर्यवंश गजपति साम्राज्य के संस्थापक थे।

- सूर्यवंशी गजपति वंश ने 15वीं शताब्दी में उड़ीसा और आंध्र प्रदेश के कुछ हिस्सों पर शासन किया।
- इस राजवंश के महत्वपूर्ण शासक पुरुषोत्तम देव (1467-1497) और प्रतापरुद्र देव (1497-1540) थे।
- कर्खरुआ देव इस वंश का अंतिम शासक था।
- गजपति राजाओं ने वैष्णववाद का संरक्षण किया और वे भगवान विष्णु के प्रबल भक्त थे।

100. B

Sol. • 'द एंड ऑफ इमेजिनेशन' नामक पुस्तक अरुंधति रॉय द्वारा लिखी गई।

- अरुंधति रॉय को उनके उपन्यास 'द गॉड ऑफ स्मॉल थिंग्स' (1997) के लिए जाना जाता है, जिसने 1997 में फिल्म के लिए मैन ब्रुकर पुरस्कार जीता था।
- जनवरी 2006 में उन्हें साहित्य अकादमी पुरस्कार से सम्मानित किया गया।