



# **SSC MTS 2020 Tier I : 5**

## **Oct S1**

**Mock Test Questions & Solutions**

## Mock Test Solutions in English

### Questions

1. Select the INCORRECTLY spelt word.

- |           |             |
|-----------|-------------|
| A. dealer | B. hesitete |
| C. queer  | D. obvious  |

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

Today, banking in a seamless world \_\_\_\_\_ a distinct reality.

- |        |         |
|--------|---------|
| A. was | B. have |
| C. is  | D. are  |

3. Select the most appropriate one-word substitution for the given words.

One who interferes in the affairs of others, often for selfish reasons

- |               |                |
|---------------|----------------|
| A. stranger   | B. interpreter |
| C. interloper | D. foreigner   |

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

To get on the nerves

- |                       |                     |
|-----------------------|---------------------|
| A. To irritate        | B. To give medicine |
| C. To have an illness | D. To soothe        |

5. 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'.

During the winter months the bears go without food by nearly six to seven months.

- |                             |               |
|-----------------------------|---------------|
| A. No substitution required | B. for quite  |
| C. from almost              | D. for almost |

6. Select the INCORRECTLY spelt word.

- |              |              |
|--------------|--------------|
| A. edible    | B. meddle    |
| C. condition | D. Outhority |

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

## PROTEST (v.)

- |           |            |
|-----------|------------|
| A. favour | B. support |
| C. assist | D. Object  |

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

The \_\_\_\_\_ for a vaccine could take up to a year.

- A. search
  - B. chase
  - C. pursuit
  - D. Track

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

I hope your parents \_\_\_\_\_ soon.

- A. are recovering
  - B. recover
  - C. should recover
  - D. are recover

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

Many tales evoke the memory of Akbar and Birbal.

- |             |              |
|-------------|--------------|
| A. populist | B. populated |
| C. populous | D. popular   |

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

Have you decided what you want to become when you grown up.



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

Seldom has the discoveries of the world's greatest discoverers, like Copernicus or Galileo, been forgotten.



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

By the same token

- A. In the same bus
  - B. Use the same ticket
  - C. Use the same password
  - D. In the same way

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

# INDULGENCE

- |             |                  |
|-------------|------------------|
| A. Leniency | B. attentiveness |
| C. accuracy | D. Diligence     |

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

We do hope you are enjoy this online course in art and craft.

- A. this online course
  - B. We do hope
  - C. in art and craft
  - D. you are enjoy

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

## NARROW

- A. tight
  - B. wide
  - C. firm
  - D. Solid

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

I can't live at a place which is far from the sea.



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

Restore (someone) to health or normal life after imprisonment, addiction, or illness

- |                 |              |
|-----------------|--------------|
| A. rehabilitate | B. reinstate |
| C. renovate     | D. Refurbish |

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

SLY



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

There are many birds in the verandah today. Hema, please feed those.

- A. feed them
- B. fed them
- C. fed those
- D. No substitution required

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

One day while the magistrate was walking (###Q1###)\_\_\_\_\_ a market, he saw a crowd outside a poultry shop. (###Q2###)\_\_\_\_\_ enquiring what the matter was (###Q3###)\_\_\_\_\_ learnt that a peasant had accidentally (###Q4###)\_\_\_\_\_ a heavy sack on a chicken, (###Q5###)\_\_\_\_\_ it to death.

Select the most appropriate option to fill in blank number 1

- A. along
- B. through
- C. over
- D. aside

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

- A. So
- B. Whereas
- C. How
- D. On

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

- A. him
- B. she
- C. they
- D. He

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

- A. dropped
- B. filled
- C. selected
- D. Picked

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

- A. creeping
- B. crushing
- C. covering
- D. Crumbling

26. 'Sewing' is related to 'Tailor' in the same way as 'Painting' is related to '\_\_\_\_\_ '.

- A. Paint
- B. Painter
- C. Printer
- D. Canvas

27. Abhay's uncle sent him some mangoes from Konkan. If he was to eat some specific number of mangoes every day, they would have lasted for 60 days. But, Abhay's cousin Rajiv came to spend the holidays with him and both of them finished the mangoes in 36 days. If Rajiv alone was to eat the mangoes, then how many days would they have lasted?

A. 72

C. 180

B. 90

D. 120

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

128, 116, 126, 118, 124, ?

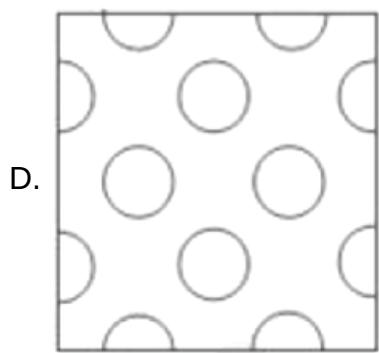
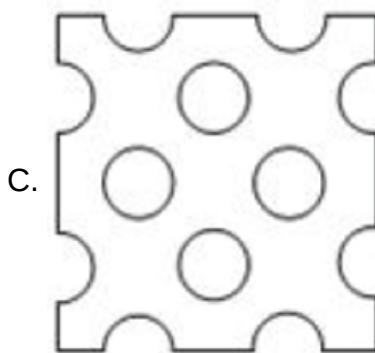
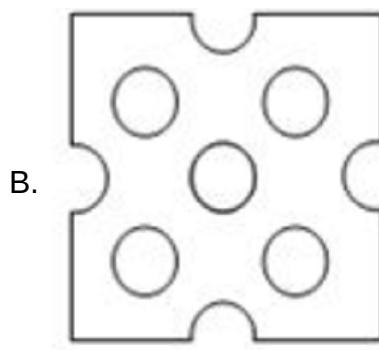
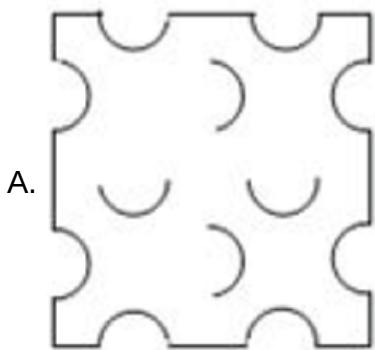
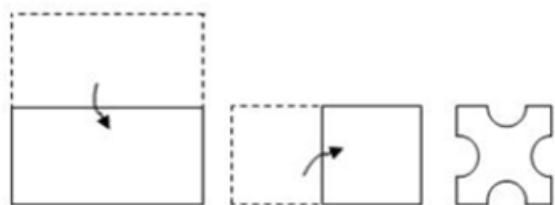
A. 118

C. 122

B. 120

D. 124

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



30. If in a certain code language, FEVERISH is coded as 29 and COUNSEL is coded as 98, then how will MUTATED be coded as in the same code language?

A. 48

B. 80

C. 92

D. 84

31. Select the number-pair in which the numbers are related in the same way as are the numbers of the following pair.

144 : 168

A. 64 : 82

B. 169 : 159

C. 121 : 143

D. 81 : 100

32. 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.

Villain : Hero :: Devil : ?

A. Virtuous

B. Angel

C. God

D. Divine

33. 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:**

Some Pans are Bottles.

All Bottles are Mugs.

**Conclusions:**

I. All Mugs are Bottles.

II. Some Mugs are Pans.

A. Neither conclusion I nor II follows.

B. Only conclusion I follows.

C. Only conclusion II follows.

D. Both conclusions I and II follow.

34. In the morning prayer of a school, Chanchal was 8th from the front, while Prince was 11th from the back in the same row. If they swap their positions, Chanchal becomes 22nd from the front. What is the number of

students in the row?



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

VSP, NKH, FCZ, ?



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

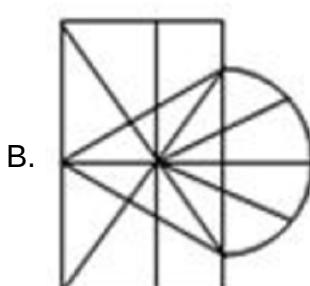
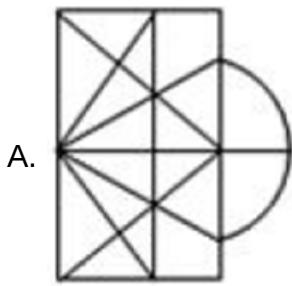
(4, 3, 35)

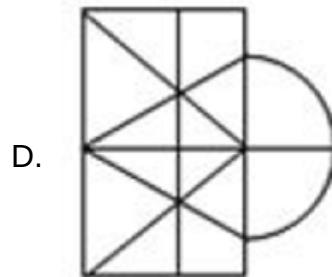
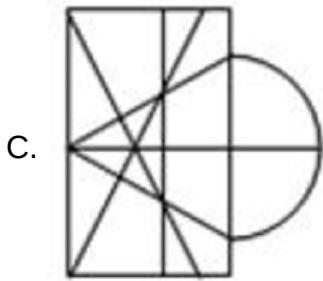
- A. (8, 13, 110)      B. (6, 9, 65)  
C. (7, 12, 95)      D. (9, 18, 153)

37. In a certain code language, if GLOWING is written as GGILNOW, then how will OBVIOUS be written as in the same code language?



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








6, 11, 18, 27, 38, ?

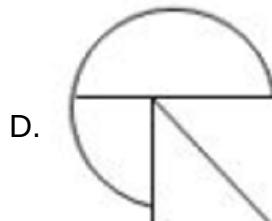
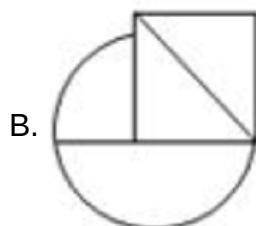
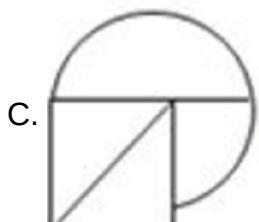
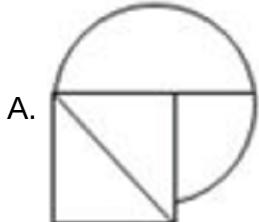
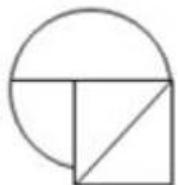
A. 51

C. 54

B. 49

D. 53

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



45. In a certain code language, if SMOOTHIE is written as UKQMVFKC, then how will HEAVENLY be written as in the same code language?

A. FCYTCLJW

C. JGCXGPNA

B. FGYXCPJA

D. JCCTGLNW

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

$$46 * 72 * 18 * 27 * 135 = 19$$

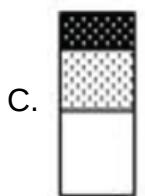
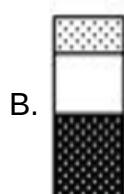
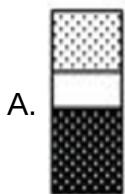
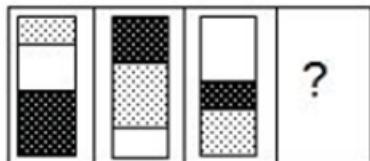
A. -,  $\times$ ,  $\div$ , +

C. +,  $\div$ ,  $\times$ , -

B.  $\times$ ,  $\div$ , -, +

D.  $\div$ , -, +,  $\times$

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



48. 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 Cups are Plates.

Some Plates are Saucers.

**Conclusions:**

I. All Plates are Cups.

II. Some Cups are Saucers.

A. Both conclusions I and II follow.

C. Neither conclusion I nor II follows.

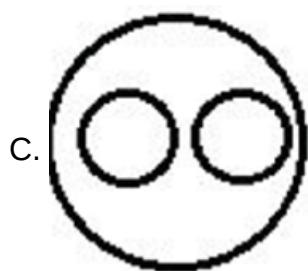
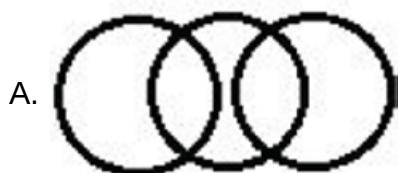
B. Only conclusion II follows.

D. Only conclusion I follows.

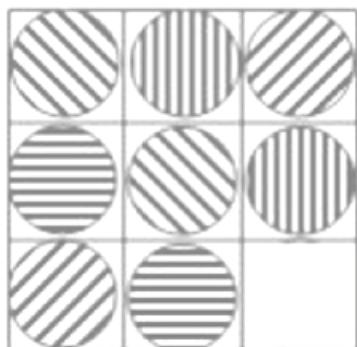
49. From the given options select the Venn diagram that best illustrates the relationship between the

**following classes:**

Pencil, sharpener, Lead



50. Identify the options figure that completes the pattern.



51.

If  $x$  and  $y$  are two numbers having opposite signs, and  $x^2:y^2 = 16:81$ , then what is the value of  $\frac{3x+4y}{2x-3y}$ ?

A.  $\frac{12}{25}$

B.  $-\frac{27}{40}$

C.  $-\frac{24}{35}$

D.  $\frac{48}{35}$

52. The Value of  $1\frac{4}{11} \div \left\{ \left[ \frac{11}{80} \div \frac{3}{4} \left( \frac{1}{4} - \frac{1}{3} \times \frac{1}{5} \right) \div 1\frac{5}{6} \right] + \frac{9}{11} \right\}$  is:

A. 1

B. 5

C. 4

D. 10

53. In a  $\Delta ABC$ ,  $\angle BAC = 90^\circ$ , AD is drawn perpendicular from A on BC . Which among the following is the mean proportional between BD and BC?

A. AD

B. AB

C. CD

D. AC

54. Two containers have mixtures of milk and water, respectively, in the ratios 3 : 2 and 6 : 5 . In what ratio should the contents be mixed so that the ratio of milk to water in the final mixture is 4 : 3?

A. 6 : 13

B. 9 : 14

C. 10 : 11

D. 5 : 8

55. The area of a square is S and that of the square formed by joining the mid-points of the given square is A. The value of  $\frac{A}{S}$  is equal to.

A. 0.25

B. 0.5

C. 0.125

D. 1.25

56. What is the median of the distribution: 34, 22, 13, 11, 27, 19, 25, 16?

A. 20.5

B. 21.5

C. 19

D. 22

57. The speed of wind during a storm is  $10^5$  mm per sec. How long (in seconds) will it take a dust particle suspended in air to travel 1 km?

A. 1

B. 0.1

C. 10

D. 0.01

58. Two friends, one of whom is thrice as efficient as the other, working together, can complete a work in 6 days. In how many days will the less efficient among the two be able to complete twice the quantum of work?

A. 24

B. 36

- C. 48 D. 12

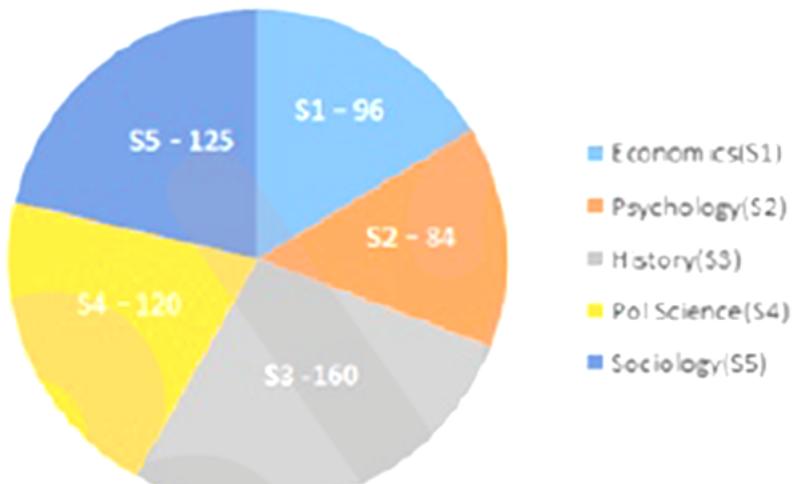
59. Due to some crisis, some people from State A migrated to State B, and thereby the population of the second state increased by 19.96%. However. At a later stage, all of them returned to state A . Then by what percentage (correct up the two decimal places) did the population of State B decrease?  
A. 19.96 B. 16.64  
C. 18.24 D. 17.54

60. A retailer opens her outlet on all seven days of the week. It is observed that her average sales for Saturdays and Sunday combined is Rs. 300 and Rs. 200 for the remaining five days combined. For a month starting on a Saturday, it was found that the total sales were Rs. 7,000. Which among the following months it could be:  
A. March B. April  
C. January D. February

61. The number of students taking admission in First Year of a Degree Course at a college in areas of Social Sciences in 2012 was as follows: Economics (S1)- 96, Psychology (S2) -84, History (S3) – 160, Political Science (S4) – 120, Sociology (S5) – 125 . The break-up of students in different subjects has been presented through the given pie chart.

Study the pie chart and answer the question that follows.

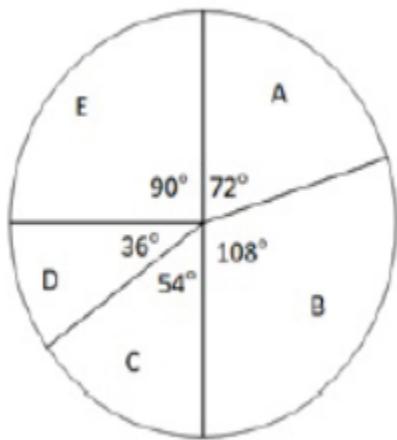
The number of students taking admission in the First Year of Degree Course at a college in areas of Social Sciences in 2012



In 2013, 20% of the Sociology students, 25% of the Political Science students and one-sixth of the Economics students shifted to another college, and the number of History students got increased by 10% due to students shifting from other colleges. Over and above this 10% of the remaining Sociology students and one-seventh of the Psychology students got transferred to Economics. What will be the central angle (to the nearest degree) of the sector corresponding to History in the pie chart, representing the chart, representing the break-up in 2013?



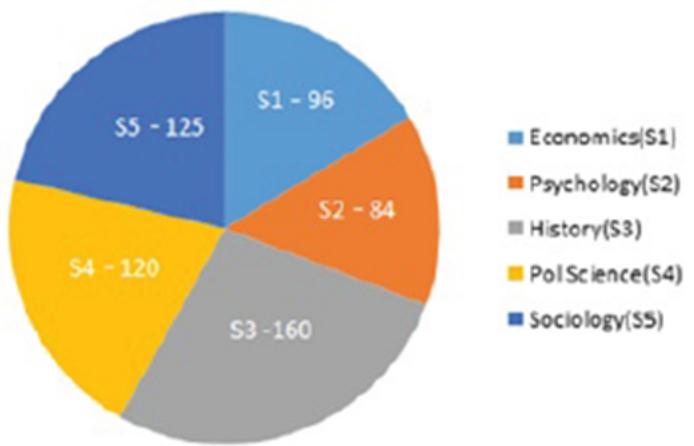
The pie chart shows the distribution (degree-wise) of the number of players who play five sports A, B, C, D and E (Assuming each player plays only one sport).



If the number of players who play sport C is 162, then the difference between the total number of players who play sports A and E is:

Study the pie chart and answer the question that follows.

**The number of students taking admission in the First Year of Degree Course at a college in areas of Social Sciences in 2012**



The total number of students in Economics and Psychology is what percentage of the total number of students in History, Political Science and Sociology (correct to two decimal places)?

C. 12,000

D. 8,000

81. Which of the following concepts implies that sustainable development should take a holistic approach towards notions of progress and give equal importance to non-economic aspects of wellbeing?
- A. Gross Domestic Product      B. Gross National Product  
C. Gross National Happiness      D. Net National Product
82. Which of the following books is written by Rajendra Prasad?
- A. India Divided      B. An Autobiography: Towards Freedom  
C. The Discovery of India      D. Glimpses of World History
83. Which of the following books was written by James Mill, a Scottish economist, in 1817?
- A. Poverty and Un-British Rule in India      B. A Passage to India  
C. The History of British in India      D. The Great Mutiny
84. What was India's rank in the Human Development Index-2019 released by the United Nations Development Programme (UNDP)?
- A. 141      B. 132  
C. 112      D. 129
85. Moved by the Swadeshi Movement, \_\_\_\_\_ painted his famous image of Bharat Mata portraying her as an ascetic figure.
- A. Satyendranath Tagore      B. Abanindranath Tagore  
C. Jyotirindranath Tagore      D. Dwijendranath Tagore
86. Hafiz (Hafez) was a \_\_\_\_\_ century poet whose collection of poems is known as 'Diwan' or 'Diwan-e-Hafiz'.
- A. 14th      B. 15th  
C. 16th      D. 17th
87. Which of the following diseases is NOT caused by ingesting polluted water?
- A. Typhoid      B. Cholera  
C. Rabies      D. Meningitis
88. Who is the first Indian cricketer to have twin centuries in his maiden appearance as a test opener?
- A. Shikhar Dhawan      B. MS Dhoni  
C. Virat Kohli      D. Rohit Sharma
89. Zinc + Sulphuric acid → Zinc sulphate + \_\_\_\_\_.
- A. Hydrogen      B. Nitrogen

C. Carbon

D. Chlorine

90. Who among the following is a professional football player?

A. Boris Gelfand

B. Sadio Mane

C. Peter Svidler

D. Magnus Carlsen

91. Which of the following is NOT a natural acid-base indicator?

A. Geranium flowers

B. Red cabbage leaves

C. Petunia flowers

D. Thyme leaves

92. The Buxa Tiger Reserve in West Bengal is threatened by the ongoing:

A. Dolomite mining

B. Copper mining

C. Magnetite mining

D. Hematite mining

93. Which of the following princely states was annexed by the British under the pretext of the misgovernment of the Nawab'?

A. Udaipur

B. Awadh

C. Nagpur

D. Satara

94. Which of the following statements about the Reserve Bank of India is INCORRECT?

A. In 1931, the Indian Central Banking Enquiry

Committee revived the issue of the establishment of the Reserve Bank of India as the Central Bank for India.

B. The Reserve Bank of India commenced operations in 1935

C. In 1929, the Hilton Young Commission

recommended the establishment of a central bank to be called the 'Reserve Bank of India'.

D. The Reserve Bank of India Act was enacted in 1934

95. As per the Companies Act, 2013, a dividend declared by a company but not paid or claimed within \_\_\_\_\_ days from the date of declaration is to be transferred to the Unpaid Dividend Account.

A. 120

B. 60

C. 30

D. 90

96. Which of the following is a snow-fed river?

A. Yamuna

B. Godavari

C. Kaveri

D. Narmada

97. Where was the first jute mill set up at Kolkata in 1859?

A. Sreerampur

B. Mesra

C. Howrah

D. Rishra

98. Which of the following Acts was enacted in British India in the year 1878?

A. Indian Contract Act

B. Transfer of Property Act

C. Vernacular Press Act

D. East India Stock Dividend Redemption Act

99. Which of the following statements is INCORRECT?

A. Pure metals have a shining surface.

B. Metals are good conductors of heat.

C. Metals have high melting points.

D. Lead and mercury are the best conductors of heat.

100. \_\_\_\_\_, a festival of the Galo tribe of Arunachal Pradesh, is celebrated in April every year.

A. Doljatra

B. Ali Ai Ligang

C. Mopin

D. Me Dum Me Phi

### **Solutions**

1. B

Sol. Option B has incorrectly spelt word.

"Hesitate" is the correct spelling of the incorrect word "hesitete". It means to be slow to speak or act because one feels uncertain or nervous.

Meanings of other words:

Dealer: a person whose business is buying and selling a particular object.

Queer: strange or unusual.

Obvious: easy to understand or see.

2. C

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

- Was = singular helping verb used in simple past tense.
- Have = plural helping verb used in present perfect tense.
- Is = singular helping verb used in simple present tense.
- Are = plural helping verb used in simple present tense.

"Is" is used in the "simple present tense". Here in the given sentence, it is used to show the present scenario of banking.

The subject in the given sentence is "banking". It is a singular noun. Thus, we will use a singular verb in the blank.

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

Thus, the correct sentence will be: Today, banking in a seamless world is a distinct reality.

Hence, option C is the correct answer.

3. C

Sol. Stranger: a person that you don't know

Interpreter: a person whose job is to translate what someone is saying into another language.

Interloper: someone who becomes involved in an activity or a social group without being asked, or enters a place without permission.

Foreigner: a person who comes from a different country.

Hence, option C is the correct answer.

4. A

Sol. The idiom "to get on the nerves" means to annoy someone.

Example: Her endless whining really gets on my nerves.

Hence, option A is the correct answer.

5. D

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

- The underlined part needs correction in the preposition and adverb.
- "By" as a preposition is used for showing how or in what way something is done.
- "For" as a preposition is used to show a length of time.

For example:

Ramesh is going away for a few weeks.

- "From" as a preposition is used to show where something starts.
- "Almost" has a similar meaning to "nearly" i.e. not completely
- "Quite" is used to show "some degree".
- For example:

He is quite a good player.

The workforce has almost doubled in the past five years.

- In the underlined sentence, we need a preposition that shows the duration and an adverb that shows meaning similar to "nearly". Thus, it is appropriate to use preposition "for" and adverb "almost".
- Hence, "for almost" is the correct substitution.

Thus, the correct sentence will be:

During the winter months the bears go without food for almost six to seven months.

Hence, option D is the correct answer.

6. D

Sol. Option D has incorrectly spelt word.

“Authority” is the correct spelling of the incorrect word “Outhority”. It means the power to give orders to people.

Meanings of other words:

Edible: fit or suitable to be eaten

Meddle: interfere

Condition: the state that something is in.

7. D

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

Protest = to say something or do something to show that you disagree with something or think it is bad especially publically.

E.g.: The local residents took to the streets to protest against the decision.

Favour = to prefer one system, plan, or way of doing something.

Support = to help or encourage someone/something

Assist = to help someone to do something

Object = to say that you disagree with or oppose something.

E.g.: The investors objected to the proposal at the meeting.

Hence, option D is the correct answer.

8. A

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

- Search = an attempt to find something/someone especially by looking carefully for them/it
- Chase = an act of running or driving after
- Pursuit = the act of looking for or trying to get something.
- Track = a piece of ground with a special surface for people, cars, etc. to have races or to drive on.

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

- "Chase" is used in the context of "running or driving after someone" Thus, option B is incorrect.
- "Pursuit" is used in the context of "looking for something". Thus, option C is incorrect.
- "Track" is used in the context of "surface for driving or races". Thus, option D is incorrect.
- "Search" is used in the context of "finding something carefully". Here in the given sentence, it means the act of finding vaccine may take a year.

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

Thus, the correct sentence will be: The search for a vaccine could take up to a year.

9. B

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

- Are recovering = present continuous form of verb "recover".
- Recover = base form of verb "recover". It means to get well again after being hurt, ill etc.
- Should recover = it is "modal + base form of verb" structure.
- Are recover = it is "helping verb + base form of verb" structure. It is structurally incorrect.

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

- "Are recovering" is used to show the continuous state of something. Thus, option A is incorrect.
- "Should recover" is used to show the necessity in the sentence. Thus, option C is incorrect.
- "Are recover" is grammatically wrong structure of verb. Thus, option D is incorrect.
- "Recover" is the base form of verb. With the verb "hope", we use the base form of the verb. Here in the given sentence, it is used to talk about an event of "recover".  
Thus, "Recover" becomes the correct word to fill in the blank.  
Thus, the correct sentence will be: I hope your parents recover soon.

10. D

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

- Populist = one who believes in or supports populism (type of politics that claims to represent the opinions and wishes of ordinary people)
- Populated = to live in an area and form its population.
- Populous = where a large number of people live.
- Popular = liked or enjoyed by a large number of people OR shared by a large number of people

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

- "Populist" is used particularly in the context of "having support of masses". Thus, option A is incorrect.
- "Populated" is used particularly in the context of "living in an area". Thus, option B is incorrect.
- "Populous" is used particularly in the context of "existence of large people in an area". Thus, option C is incorrect.
- "Popular" is used particularly in the context of "liked or shared by many people". Here in the given sentence, it is used to mention the likeness of tales (of Akbar and Birbal) by large number of people.

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

Thus, the correct sentence will be: Many popular tales evoke the memory of Akbar and Birbal.

11. B

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

- The use of V3 “grown” with the pronoun “you” is erroneous.
- We do not use V3 with the pronoun “you” directly.
- Thus, we will replace the V3 with V1 “grow”.
- Also, it is erroneous to use “full stop” in the end when the sentence is of interrogative type.
- Hence, “when you grow up?” is the correct substitution.

Thus, the correct sentence will be: Have you decided what you want to become when you grow up?

Hence, option B is the correct answer.

12. A

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

- Inversion is applicable when phrases with negative meaning comes in the starting of the sentence. “Seldom” is one such phrase (adverb of time) that carry the negative sense with it.
- Inversion means putting helping verb before the subject.

For example: Seldom did we have any time to ourselves.

- In the given sentence, we have used the helping verb “has” before the subject “discoveries”. But “has” is a singular helping verb which is inappropriate according to the subject verb agreement because the subject is plural. Thus, plural helping verb “have” should be used in place of “has”.
- Hence, “Seldom have the discoveries” is the correct substitution.

Thus, the correct sentence will be: Seldom have the discoveries of the world's greatest discoverers, like Copernicus or Galileo, been forgotten.

Hence, option A is the correct answer.

13. D

Sol. The idiom "by the same token" means for the same reasons.

Example: The punishment for failure will be high. But, by the same token, the rewards for success will be great.

Hence, option D is the correct answer.

14. A

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

Indulgence= an occasion when you allow or do not mind someone's failure or bad behaviour.

E.g.: My inability to do needlework was treated with surprising indulgence by my teacher.

Leniency = the fact of being less strict than expected.

E.g.: He appealed to the judge for leniency.

Attentiveness = the quality of being pleasant to look at or experience

Accuracy = the state of being exact or correct.

Diligence = careful work or great effort

Hence, option A is the correct answer.

15. D

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

Verb.

- In the given sentence, we have the helping verb “are” and the main verb “enjoy”.
- We either use -Ving (present continuous) or V3 (passive) after the helping verb “are”.
- The given sentence is not in the passive voice because the subject is the real doer of action verb “enjoy”.
- In such a case, we are left two choices, i.e. either make the continuous form of main verb after the helping verb (are) i.e. enjoying or remove “are” from the sentence.
- Note: “Do hope” is used for emphatically stating the meaning synonymous to “certainly hope”.
- Hence, “you are enjoying” or “you enjoy” is the correct substitution.

Thus, the correct sentence will be:

We do hope you are enjoying this online course in art and craft.

Or

We do hope you enjoy this online course in art and craft.

16. B

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

Narrow= measuring a short distance from one side to the other, especially in relation to length.

E.g.: There is only a narrow gap between the bed and the wall.

Tight = held or fixed in position securely; difficult to move

Wide = measuring a large distance from one side to the other.

E.g.: She wore a jacket with wide lapels.

Firm = fairly hard

Solid = hard; not in the form of a liquid.

Hence, option B is the correct answer.

17. B

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

Hence, option B is the correct answer.

18. A

Sol. Rehabilitate: the process of helping someone to have a normal, useful life again after they have been very ill or in prison for a long time.

Reinstate: to give back a job or position that had been taken away from someone.

Renovate: to repair and paint an old building, furniture etc. to bring it in good condition again.

Refurbish: to clean and decorate a room, building etc. in order to make attractive, more useful.

Hence, option A is the correct answer.

19. C

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

Sly= acting or done in a secret or dishonest way.

E.g.: He's a sly old devil - I wouldn't trust him with my money.

Thick = having a larger distance between opposite sides or surfaces than other similar objects

Stiff = difficult to bend

Honest = always telling truth and never stealing or cheating

E.g.: Everyone in the office knows that she is an honest woman.

Slow = not moving, acting or done quickly.

Hence, option C is the correct answer.

20. A

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

- The underlined part needs correction in the pronoun.
- “Them” is the objective case of pronoun “they”. It is used when referring to animals, people or things as object of verb/preposition.
- “Those” is the plural form of determiner “that”. It is used for referring a person or a things that is not near the speaker.

For example:

Look at those women over there.

If anyone comes in before we get back, ask them to wait.

- In the underlined sentence, we need a pronoun to refer to “birds” mentioned in the previous sentence so that it can act like an object for verb “feed”. Thus, it is appropriate to use objective case of pronoun “them”.
- Since the sentence is in the present tense, we will use the verb “feed”.
- Hence, “feed them” is the correct substitution.

Thus, the correct sentence will be: There are many birds in the verandah today. Hema, please feed them.

Hence, option A is the correct answer.

21. B

Sol. The given passage is about an event of “Accidental death of a chicken”

“Along” as a preposition is used for showing a line that follows the side of something long. Thus, option A is wrong.

“Over” as a preposition is used to show resting on the surface of something/someone and partly or completely covering them/it. Thus, option C is wrong.

“Aside” as an adverb is used to show “to one side; out of the way”. Thus, option D is wrong.

“Through” as a preposition is used for showing from one end or side of something/someone to the other. Here it is used to show that the magistrate was walking from one end of market to the other end.

Hence, option B is the correct answer.

22. D

Sol. The given passage is about an event of “Accidental death of a chicken”

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

“Whereas” as a conjunction is used to show contrast. Thus, option B is wrong.

“How” as an adverb is used to show “in what way or manner”. Thus, option C is wrong.

“On” as a preposition is used to show “immediately after something”. Here it is used to show that after enquiring about why there was so much crowd outside a poultry shop, the magistrate got the real reason.

Hence, option D is the correct answer.

23. D

Sol. The given passage is about an event of “Accidental death of a chicken”

“Him” is an objective form of pronoun “He”. Thus, option A is wrong.

“She” is the third person singular pronoun (subjective case). It is used to refer the nouns with feminine gender. Thus, option B is wrong.

“They” is the third person plural pronoun (subjective case). Thus, option C is wrong.

“He” is the third person singular pronoun (subjective case). It is used for nouns with masculine gender. Here it refers to masculine gender noun i.e. “magistrate”.

Hence, option D is the correct answer.

24. A

Sol. The given passage is about “Accidental death of a chicken”.

“Filled” means to make something full of something. Thus, option B is wrong.

“Selected” means carefully chosen as the best out of a larger group of people or things. Thus, option C is wrong.

“Picked” means to choose someone/something from a group of people/things. Thus, option D is wrong.

“Dropped” means to allow something to fall by accident. Here it is used to show that a sack (heavy weight) fell, by accident, on a chicken and it eventually led to the death of chicken.

Hence, option A is the correct answer.

25. B

Sol. The given passage is about “Accidental death of a chicken”.

“Creeping” means to move slowly, quietly and carefully. Thus, option A is wrong.

“Covering” means a layer of something that covers something else. Thus, option C is wrong.

“Crumbling” means to break or break something into very small pieces. Thus, option D is wrong.

“Crushing” means to press something hard that it is damaged or injured. Here it is used to show that the heavy sack that accidentally fell on chicken, hit the chicken so hard that it eventually led to the death.

Hence, option B is the correct answer.

26. B

Sol. As,

Work of tailor is sewing cloths.

similarly,

Work of Painter is Painting.

Hence, option B is the correct answer.

27. B

Sol. Let Abhay eats 2 mangoes every day.

In 60 days, Abhay eats total 120 mangoes.

so, total mangoes=120

Abhay's cousin Rajiv came to spend the holidays with him and both of them finished the mangoes in 36 days.

in 36 days, Abhay eats= $36 \times 2 = 72$  mangoes

so, in 36 days, Rajiv eats= $120 - 72 = 48$  mangoes

so, Rajiv alone eats 120 mangoes in= $(36/48) \times 120$

=90 days

Hence, option B is the correct answer.

28. B

Sol. Given series contains two series.

Series 1:

128, 126, 124

pattern-

$128 - 2 = 126$

$126 - 2 = 124$

Series 2:

116, 118, ?

pattern-

$116 + 2 = 118$

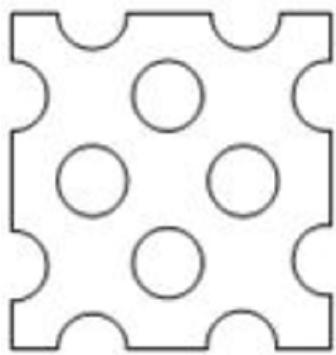
$118 + 2 = 120$

so, ?=120

Hence, option B is the correct answer.

29. C

Sol. As given in the figure, we need to fold it in the given(book folding) manner and Option C would appear when unfolded.



Hence, option C is the correct answer.

30. A

Sol. As,

$$F(6) + E(5) + V(22) + E(5) + R(18) + I(9) + S(19) + H(8) = 92, \text{ reverse} = 29$$

$$C(3) + O(15) + U(21) + N(14) + S(19) + E(5) + L(12) = 89, \text{ reverse} = 98$$

Similarly,

$$M(13) + U(21) + T(20) + A(1) + T(20) + E(5) + D(4) = 84, \text{ reverse} = 48$$

Hence, option A is the correct answer.

31. C

Sol. As,

$$\sqrt{144}(\sqrt{144}+2)=12(12+2)=12*14=168$$

similarly,

$$\sqrt{121}(\sqrt{121}+2)=11(11+2)=11*13=143$$

Hence, option C is the correct answer.

32. B

Sol. As,

Villain and Hero are antonym words.

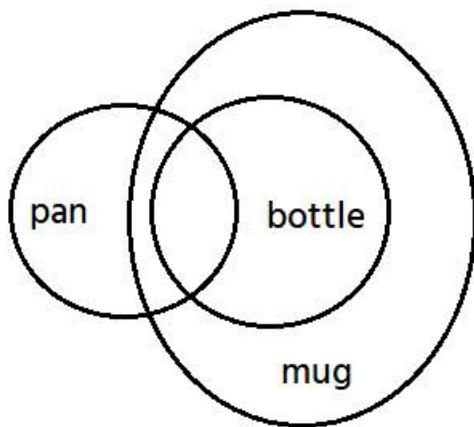
similarly,

Devil and Angel are antonym words.

Hence, option B is the correct answer.

33. C

Sol. Minimum Possible diagram is-



Conclusions:

I. All Mugs are Bottles. (It does not follow as it is just a possibility, not surety.)

II. Some Mugs are Pans. (It follows because Some Pans are Bottles and All Bottles are Mugs.)

So, only conclusion II follows.

Hence, option C is the correct answer.

34. A

Sol. In the morning prayer of a school, Chanchal was 8th from the front, while Prince was 11th from the back in the same row.

If they swap their positions, Chanchal becomes 22nd from the front and Prince will be 8th from front.

Total number of students in the row=(22+11)-1=33-1=32

Hence, option A is the correct answer.

35. C

Sol. Pattern is:

$$V \xrightarrow{-3} S \xrightarrow{-3} P$$

$$N \xrightarrow{-3} K \xrightarrow{-3} H$$

$$F \xrightarrow{-3} C \xrightarrow{-3} Z$$

$$X \xrightarrow{-3} U \xrightarrow{-3} R$$

Hence, option C is the correct answer.

36. C

Sol. as,

$$(4+3)*5=7*5=35$$

similarly,

$$(7+12)*5=19*5=95$$

Hence, option C is the correct answer.

37. C

Sol. Logic: Letters are arranged in reverse order.

As,

GLOWING = GGILNOW

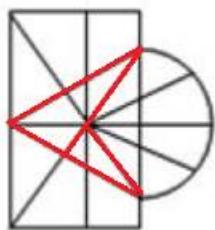
similarly,

OBVIOUS = BIOOSUV

Hence, option C is the correct answer.

38. B

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



Hence, option B is the correct answer.

39. A

Sol. As,

PETITION

$$\begin{aligned} &= P(16)E(5)T(20)I(9)T(20)I(9)O(15)N(14) \\ &= P(1+6)E(5)T(2+0)I(9)T(2+0)I(9)O(1+5)N(1+4) \\ &= P(7)E(5)T(2)I(9)T(2)I(9)O(6)N(5) \\ &= 75292965 \end{aligned}$$

and

GERMINATE

$$\begin{aligned} &= G(7)E(5)R(18)M(13)I(9)N(14)A(1)T(20)E(5) \\ &= G(7)E(5)R(1+8)M(1+3)I(9)N(1+4)A(1)T(2+0)E(5) \\ &= G(7)E(5)R(9)M(4)I(9)N(5)A(1)T(2)E(5) \\ &= 759495125 \end{aligned}$$

similarly,

COMPLEX

$$= C(3)O(15)M(13)P(16)L(12)E(5)X(24)$$

$$= C(3)O(1+5)M(1+3)P(1+6)L(1+2)E(5)X(2+4)$$

$$= C(3)O(6)M(4)P(7)L(3)E(5)X(6)$$

$$= 3647356$$

Hence, option A is the correct answer.

40. D

Sol. Logic: Letters are arranged in reverse order.

As,

FLUIDITY = YUTLIIFD

similarly,

IMPROVISE = VSRPOMIIE

Hence, option D is the correct answer.

41. A

Sol. By checking option A:

$$87 \times 2 - 65 + 182 \div 38 = 155$$

After interchanging:

$$27 \times 8 - 65 + 128 \div 32 = 155$$

$$\text{or, } 216 - 65 + 4 = 155$$

$$\text{or, } 220 - 65 = 155$$

$$\text{or, } 155 = 155$$

so, its correct option.

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

Hence, option A is the correct answer.

42. C

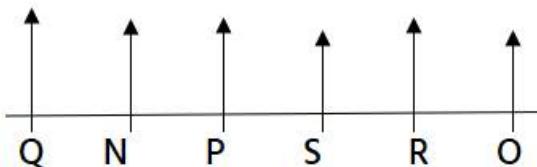
Sol. O is at the extreme right, while R is to his immediate left.

\_\_\_\_\_ R O \_\_\_\_\_ (1)

P is standing exactly between N and S, while Q is to the immediate left of N.

QNPS\_ \_ \_\_\_\_\_ (2)

from (1) and (2),



Therefore, R is to the exact right of S.

Hence, option C is the correct answer.

43. A

Sol. Pattern is:

$$6+5=11$$

$$11+7=18$$

$$18+9=27$$

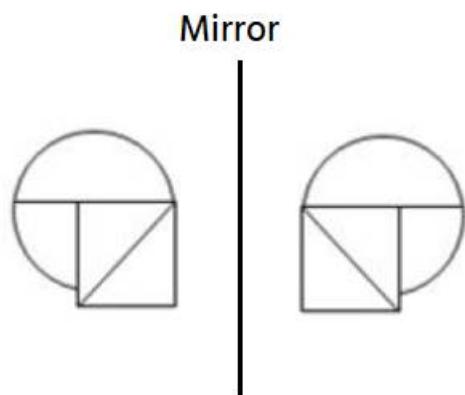
$$27+11=38$$

$$38+13=51$$

Hence, option A is the correct answer.

44. A

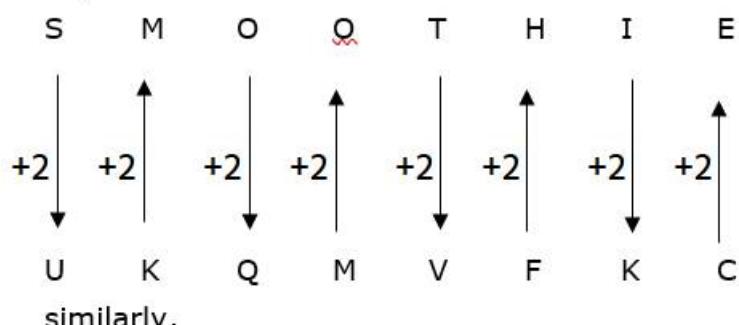
Sol. In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect it results from reflection of substances such as a mirror or water.



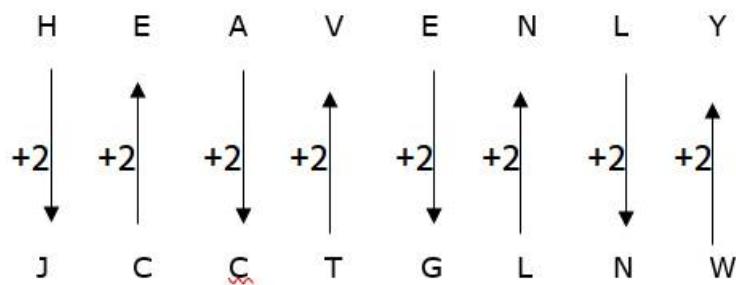
Hence, option A is the correct answer.

45. D

Sol. as,



similarly,



Hence, option D is the correct answer.

46. C

Sol. By checking option A:

$$46 * 72 * 18 * 27 * 135 = 19$$

After interchanging:

$$46 - 72 \times 18 \div 27 + 135 = 19$$

here, 18 is perfectly not divisible by 27, so it will result in decimal.

so, its not correct option.

By checking option B:

$$46 * 72 * 18 * 27 * 135 = 19$$

After interchanging:

$$46 \times 72 \div 18 - 27 + 135 = 19$$

$$\text{or, } 46 \times 4 - 27 + 135 = 19$$

$$\text{or, } 184 - 27 + 135 = 19$$

$$\text{or, } 292 = 19$$

so, its not correct option.

By checking option C:

$$46 * 72 * 18 * 27 * 135 = 19$$

After interchanging:

$$46 + 72 \div 18 \times 27 - 135 = 19$$

$$\text{or, } 4 \times 27 - 89 = 19$$

$$\text{or, } 108 - 89 = 19$$

$$\text{or, } 19=19$$

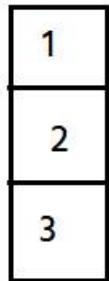
so, its correct option.

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

Hence, option C is the correct answer.

47. B

Sol.



Pattern:

Moving order of semi-transparent section: 1, 2, 3, 1

Moving order of white transparent section: 2, 3, 1, 2

Moving order of dark section: 3, 1, 2, 3

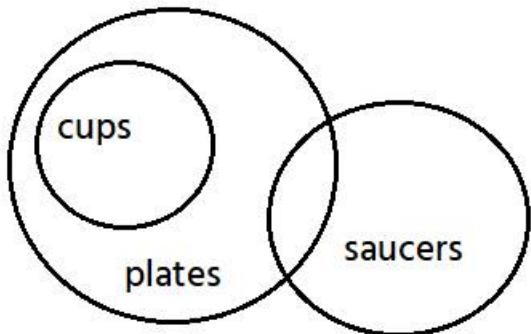
so, the next figure is-



Hence, Option B is the correct answer.

48. C

Sol. Minimum Possible diagram is-



Conclusions:

- I. All Plates are Cups. (It does not follow as it is just a possibility, not surety.)
- II. Some Cups are Saucers. (It also does not follow as it is just a possibility, not surety.)

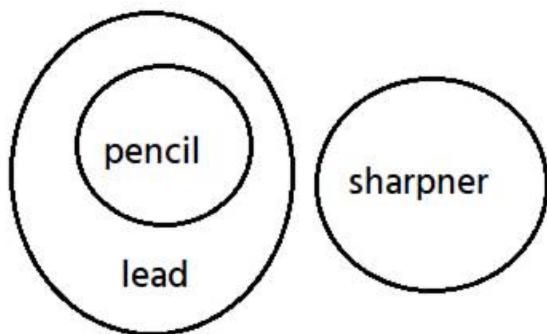
So, neither conclusion I nor II follows.

Hence, option C is the correct answer.

49. D

Sol. Pencil is made up of lead. Sharpener is different.

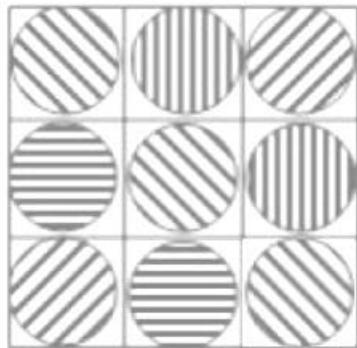
So, the best representation is:



Hence, option D is the correct answer.

50. A

Sol. Complete figure is:



Hence, option A is the correct answer.

51. C

Sol.  $\frac{x^2}{y^2} = \frac{16}{81}$

$$\Rightarrow \frac{x}{y} = \sqrt{\frac{16}{81}} = \frac{4}{9}$$

Let  $x = 4k$

As x and y are two numbers having opposite signs

Then  $y = -9k$

$$\Rightarrow \frac{3x+4y}{2x-3y} = \frac{3(4k)+4(-9k)}{2(4k)-3(-9k)} = \frac{12k-36k}{8k+27k} = \frac{-24k}{35k} = -\left(\frac{24}{35}\right)$$

52. A

Sol.  $\frac{4}{11} \div \left\{ \left[ \frac{11}{80} \div \frac{3}{4} \left( \frac{1}{4} - \frac{1}{3} \times \frac{1}{5} \right) \div 1\frac{5}{6} \right] + \frac{9}{11} \right\}$

$$\Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{11}{80} \div \frac{3}{4} \left( \frac{1}{4} - \frac{1}{3} \times \frac{1}{5} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\}$$

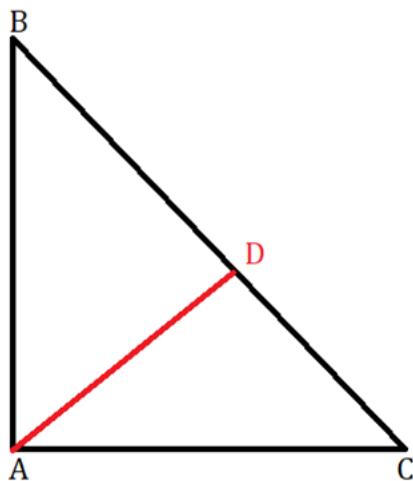
Using BODMAS :

$$\Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{11}{80} \div \frac{3}{4} \left( \frac{1}{4} - \frac{1}{15} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\}$$

$$\begin{aligned}& \Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{11}{80} \div \frac{3}{4} \left( \frac{15-4}{60} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\} \\& \Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{11}{80} \div \frac{3}{4} \left( \frac{11}{60} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\} \\& \Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{11}{80} \div \left( \frac{33}{240} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\} \\& \Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{11}{80} \times \left( \frac{240}{33} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\} \\& \Rightarrow \frac{15}{11} \div \left\{ \left[ 1 \div \left( \frac{11}{6} \right) \right] + \frac{9}{11} \right\} \\& \Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{6}{11} \right] + \frac{9}{11} \right\} \\& \Rightarrow \frac{15}{11} \div \left\{ \frac{15}{11} \right\} = 1\end{aligned}$$

53. B

Sol. In a  $\triangle ABC$ ,  $\angle BAC = 90^\circ$ , AD is drawn perpendicular from A on BC.  
Let AB = 4 cm  
AC = 3 cm  
In a  $\triangle ABC$ ,  $\angle BAC = 90^\circ$



$$BC = \sqrt{(4)^2 + (3)^2} = \sqrt{16 + 9} = 5 \text{ cm}$$

As AD is perpendicular to BC:

$$\text{Hence, } \frac{CD}{DB} = \frac{(AC)^2}{(AB)^2} = \frac{(3)^2}{(4)^2} = \frac{9}{16}$$

$$\text{Therefore, } CD = \frac{9}{25} \times 5 = \frac{9}{5} \text{ cm}$$

$$DB = \frac{16}{25} \times 5 = \frac{16}{5} \text{ cm}$$

$$\text{Mean proportional between BD and BC} = \sqrt{BD \times BC} = \sqrt{\frac{16}{5} \times 5} = 4 \text{ cm} = AB$$

54. C

Sol. Two containers have mixtures of milk and water, respectively, in the ratios 3 : 2 and 6 : 5.

Mix x unit of first container with y unit of second container.

Balance milk quantity:

$$\Rightarrow \frac{3}{5}x + \frac{6}{11}y = \frac{4}{7}(x + y)$$

$$\Rightarrow \frac{3}{5}x - \frac{4}{7}x = \frac{4}{7}y - \frac{6}{11}y$$

$$\Rightarrow \frac{21x - 20x}{35} = \frac{44y - 42y}{77}$$

$$\Rightarrow \frac{x}{35} = \frac{2y}{77}$$

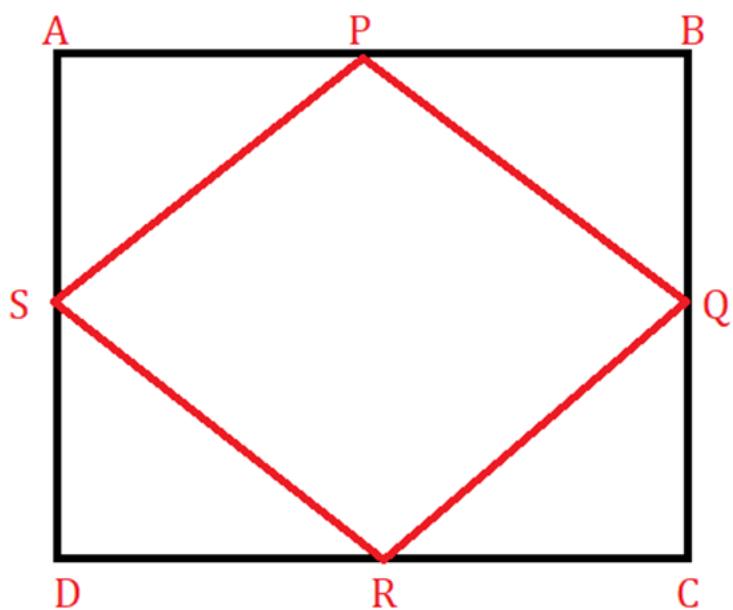
$$\Rightarrow \frac{x}{y} = \frac{70}{77} = \frac{10}{11}$$

Hence, Contents be mixed in the ratio of 10 : 11 so that the ratio of milk to water in the final mixture is 4 : 3.

55. B

Sol. Let side of a square with area  $S = x$  unit

Hence,  $S = x^2$  unit<sup>2</sup>



Clearly,  $AB = BC = CD = DA = x$  unit

Also, P,Q,R and S are midpoints of side AB,BC,CD and DA respectively.

$$PB = BQ = QC = RC = RD = SD = AS = AP = \frac{x}{2} \text{ unit}$$

As ABCD is a square therefore  $\angle PBQ = \angle PAS = \angle SDR = \angle RCQ = 90^\circ$

Hence, In right angle triangle PBQ,

$$\Rightarrow PQ^2 = PB^2 + QB^2$$

$$\Rightarrow PQ = \sqrt{\left(\frac{x}{2}\right)^2 + \left(\frac{x}{2}\right)^2} = \sqrt{\frac{x^2}{4} + \frac{x^2}{4}} = \frac{x}{\sqrt{2}} \text{ unit}$$

Side of a square with area A =  $\frac{x}{\sqrt{2}}$  unit

$$A = \left(\frac{x}{\sqrt{2}}\right)^2 = \frac{x^2}{2} \text{ unit}^2$$

$$\text{Value of } \frac{A}{s} = \frac{\frac{x^2}{2}}{x^2} = \frac{1}{2} = 0.5$$

56. A

Sol. Consider: 34, 22, 13, 11, 27, 19, 25, 16

Arrange data in ascending form: 11, 13, 16, 19, 22, 25, 27, 34

Number of terms = 8

$$\frac{\left(\frac{n}{2}\right)^{\text{th}} \text{ term} + \left(\frac{n}{2} + 1\right)^{\text{th}} \text{ term}}{2}$$

As number of terms are even therefore median =

$$\text{Now, } \left(\frac{n}{2}\right)^{\text{th}} \text{ term} = 4^{\text{th}} \text{ term} = 19$$

$$\left(\frac{n}{2} + 1\right)^{\text{th}} \text{ term} = 5^{\text{th}} \text{ term} = 22$$

$$\text{Hence, Median} = \frac{19+22}{2} = \frac{41}{2} = 20.5$$

57. C

Sol. The speed of wind during a storm =  $10^5$  mm per sec.

Distance = 1 km

$$\text{Required time} = \frac{\text{Distance}}{\text{Speed}} = \frac{1 \text{ km}}{\frac{10^5}{1000 \times 1000} \text{ km/sec}} = 10 \text{ sec}$$

58. C

Sol. Two friends, one of whom is thrice as efficient as the other, working together, can complete a work in 6 days.

Let the efficiency of less efficient friend = 1 unit/day

Efficiency of more efficient friend = 3 unit/day

Let total work =  $6 \times (1 + 3) = 24$  unit

Number of days required by less efficient among the two be able to complete twice the quantum of work =  $\frac{2 \times 24}{1} = 48$  days

59. B

Sol. Due to some crisis, some people from State A migrated to State B, and thereby the population of the second state increased by 19.96%.

$$\Rightarrow 19.96\% = \frac{1996}{10000}$$

Let population of state A = 10000

Hence, Population of state B after migration =  $10000 + 10000 \times \frac{1996}{10000} = 11996$

However, at a later stage, all of them returned to state A.

Hence, Percentage by the population of State B decrease =

$$\frac{(11996 - 10000)}{11996} \times 100 = \frac{(1996)}{11996} \times 100 = 16.64\%$$

60. B

Sol. A retailer opens her outlet on all seven days of the week. It is observed that her average sales for Saturdays and Sunday combined is Rs. 300 and Rs. 200 for the remaining five days combined.

Sales of retailer for a week starting on a Saturday =

$$2 \times (300) + 5 \times (200) = 600 + 1000 = \text{Rs. } 1600$$

Sales of retailer for 4 weeks starting on a Saturday =  $4 \times \text{Rs. } 1600 = \text{Rs. } 6400$

Sales of retailer for Saturday and Sunday =  $2 \times (300) = \text{Rs. } 600$

Total sales in 4 weeks + Saturday and Sunday =  $6400 + 600 = \text{Rs. } 7000$

Total number of days in 4 weeks + Saturday and Sunday =  $28 + 1 + 1 = 30$

Therefore, April is the required month.

61. B

Sol. Number of economy students = 96

Number of Psychology students = 84

Number of History students = 160

Number of Political Science students = 120

Number of Sociology students = 125

In 2013, 20% of the Sociology students, 25% of the Political Science students and one-sixth of the Economics students shifted to another college, and the number of History students got increased by 10% due to students shifting from other colleges.

$$\text{Remaining number of economy students} = 96 - 96 \times \frac{1}{6} = 96 - 16 = 80$$

$$\text{Remaining number Political Science students} = 120 - 120 \times \frac{25}{100} = 120 - 30 = 90$$

$$\text{Remaining number of Sociology students} = 125 - 125 \times \frac{20}{100} = 125 - 25 = 100$$

$$\text{New number of History students} = 160 + 160 \times \frac{10}{100} = 160 + 16 = 176$$

Over and above this 10% of the remaining Sociology students and one-seventh of the Psychology students got transferred to Economics.

$$10\% \text{ of the remaining Sociology students} = 100 \times \frac{10}{100} = 10$$

$$\text{Remaining number of Sociology students} = 100 - 10 = 90$$

$$\text{One-seventh of the Psychology students} = \frac{1}{7} \times 84 = 12$$

$$\text{Remaining number of Psychology students} = 84 - 12 = 72$$

$$\text{Resultant number of economy students} = 80 + 10 + 12 = 102$$

Central angle (to the nearest degree) of the sector corresponding to History in the pie chart of

$$2013 = \frac{176}{102+72+176+90+90} \times 360^\circ = \frac{176}{530} \times 360^\circ = 119.54^\circ \approx 120^\circ$$

62. C

Sol. Marked price of an article is Rs. 400. A Shopkeeper sells it by giving two successive discounts of 12% and 20% on its marked price.

$$\text{Selling price of the article} = 400 \times \frac{(100-12)}{100} \times \frac{(100-20)}{100} = 400 \times \frac{(88)}{100} \times \frac{(80)}{100} = \text{Rs. } 281.6$$

$$\text{Profit} = 10\%$$

$$\text{Cost price of the article} = 281.6 \times \frac{(100)}{(100+10)} = 281.6 \times \frac{(100)}{110} = \text{Rs. } 256$$

63. A

Sol. Consider ten consecutive odd numbers starting from 5.

5, 7, 9, 11, 13, 15, 17, 19, 21, 23

Multiply each of them, except the first and the second, with three:

5, 7, 27, 33, 39, 45, 51, 57, 63, 69

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

Average of the ten numbers so formed =

$$\frac{5 + 7 + 27 + 33 + 39 + 45 + 51 + 57 + 63 + 69}{10} = \frac{396}{10} = 39.6$$

64. C

Sol. A container in the shape of a right circular cone, whose radius and depth are equal, gets completely filled by 128000 spherical droplets, each of diameter 2 mm.

Let radius of right circular cone = r cm

Height of right circular cone = r cm

Diameter of spherical droplets = 2 mm

Radius of spherical droplets = 1 mm

Volume of right circular cone =  $128000 \times$  Volume of spherical droplets

$$\Rightarrow \frac{1}{3}\pi \times r^3 = 128000 \times \frac{4}{3}\pi \times \left(\frac{1}{10}\right)^3$$

$$\Rightarrow r^3 = 512$$

$$\Rightarrow r = 8 \text{ cm}$$

Hence, radius (in cm) of the container = 8 cm

65. D

Sol. Number of players who play sport C = 162

From pie chart,

$$\Rightarrow 54^\circ = 162$$

$$\Rightarrow 1^\circ = 3$$

Difference between number of players who play sports A and E =

$$90^\circ - 72^\circ = 18^\circ = (18 \times 3) = 54 \text{ players}$$

66. C

Sol. I gain 124% by selling an item for Rs. 1,232.

$$\text{Cost price of item} = \frac{1232 \times \frac{100}{(100+124)}}{(100)} = 1232 \times \frac{100}{(224)} = \text{Rs.} 550$$

If I sell it for Rs. 572 then profit = Rs. 572 – Rs. 550 = Rs. 22

$$\text{Gain \%} = \frac{22 \times \frac{100}{(550)}}{(100)} = 4\%$$

67. A

Sol. Two men A and B, each working alone by working 12 hours per day, can complete a work in 20 days.

Let total work =  $12 \times 20 = 240$  unit

$$\text{Efficiency of A} = \frac{240}{20 \times 12} = 1 \text{ unit/hour}$$

$$\text{Efficiency of B} = \frac{240}{20 \times 12} = 1 \text{ unit/hour}$$

For execution of the work it was decided that A and B would be working for 8 and 6 hours per day, respectively, on alternate days starting with A.

Work finished by A on 1<sup>st</sup> day =  $1 \times 8 = 8$  unit

Work finished by B on 2<sup>ND</sup> day =  $1 \times 6 = 6$  unit

And this routine will continue until the work is completed.

Work finished in first 2 days =  $8 + 6 = 14$  unit

Work finished in first 34 days =  $8 + 6 = 17 \times 14 = 238$  unit

Remaining work = 240 unit – 238 unit = 2 unit

So, this remaining work of 2 unit will be completed on 35<sup>th</sup> day by A in 2 hours as efficiency of A is 1 unit/hour.

Hence, work will be completed in 34 days and 2 hours.

$$\Rightarrow x = 34 \text{ and } y = 2$$

68. C

Sol.  $\frac{\left(3 + \frac{3}{2} \div 6 \frac{1}{2} \times \frac{1}{3}\right) \text{ of } 4 \frac{1}{3}}{\left(-\frac{8}{3} \div 2\right)}$

Using BODMAS:

$$\begin{aligned} & \frac{\left(3 + \frac{3}{2} \div \frac{13}{2} \times \frac{1}{3}\right) \text{ of } \frac{13}{3}}{\left(-\frac{8}{3} \div 2\right)} \\ \Rightarrow & \frac{\left(3 + \frac{3}{2} \times \frac{2}{13} \times \frac{1}{3}\right) \text{ of } \frac{13}{3}}{\left(-\frac{8}{3} \times \frac{1}{2}\right)} \end{aligned}$$

$$\begin{aligned}& \frac{\left(3 + \frac{3}{13} \times \frac{1}{3}\right) \text{ of } \frac{13}{3}}{\left(-\frac{4}{3}\right)} \\& \Rightarrow \frac{\left(3 + \frac{1}{13}\right) \times \frac{13}{3}}{\left(-\frac{4}{3}\right)} \\& \Rightarrow \frac{\left(\frac{40}{13}\right) \times \frac{13}{3}}{\left(-\frac{4}{3}\right)} = \frac{\frac{40}{3}}{\left(-\frac{4}{3}\right)} = -10\end{aligned}$$

69. C

Sol. Time required by earth to rotate  $360^\circ$  about its axis = 24 hour

Time required by earth to rotate  $135^\circ$  about its axis =

$$\left(\frac{24}{360} \times 135\right) = 9 \text{ hour} = 9 \times 60 \times 60 = 32400 \text{ second}$$

70. B

Sol. A fruit vendor brings 1092 apples and 3432 oranges to a market. He arranges them in heaps of equal number of oranges as well as apples such that every heap consists of the maximum possible number of the fruits.

Required number = HCF (1092, 3432)

$$1092 = 2 \times 2 \times 3 \times 7 \times 13$$

$$3432 = 2 \times 2 \times 2 \times 3 \times 11 \times 13$$

$$\text{HCF (1092, 3432)} = 2 \times 2 \times 3 \times 13 = 156$$

Hence, every heap consists of 156 number of the fruits.

71. C

Sol. A salesperson, with a view to promote sales of an item, applies the principle of simple interest.

He declares that 300 pieces of the item can be obtained immediately against cash payment, but a customer will get only 200 pieces of the item if he defers the payment for a year.

Let price of one piece of item =  $x$

Price of 300 pieces of item =  $300x$

Price of 200 pieces of item =  $200x$

Simple interest for 1 year =  $300x - 200x = 100x$

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

$$\Rightarrow 100x = \frac{200x \times R \times 1}{100}$$

$$\Rightarrow R = 50\%$$

Hence, Rate of interest = 50%

72. D

Sol. A sum of Rs. 6,400 invested on the basis of yearly compounding of interest, grows to Rs. 7,056 in two years.

Principal = Rs. 6400

Amount = Rs. 7056

Time = 2 years

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

$$\Rightarrow 7056 = 6400 \left(1 + \frac{R}{100}\right)^2$$

$$\Rightarrow \frac{7056}{6400} = \left(1 + \frac{R}{100}\right)^2$$

$$\Rightarrow \left(1 + \frac{R}{100}\right)^2 = \frac{441}{400}$$

$$\Rightarrow \left(1 + \frac{R}{100}\right) = \sqrt{\frac{441}{400}} = \frac{21}{20}$$

$$\Rightarrow \frac{R}{100} = \frac{1}{20}$$

$$\Rightarrow R = 5\%$$

Rate of interest = 5%

73. C

Sol. Total surface area of a solid right circular cylinder =  $1617 \text{ cm}^2$

Diameter of its base = 21 cm

Radius of its base =  $\left(\frac{21}{2}\right)$  cm

$$\Rightarrow 2\pi r(r + h) = 1617$$

$$\Rightarrow 2 \times \frac{22}{7} \times \frac{21}{2} \left(\frac{21}{2} + h\right) = 1617$$

$$\Rightarrow \left(\frac{21}{2} + h\right) = \frac{1617}{66} = 24.5$$

$$\Rightarrow h = 24.5 - 10.5 = 14 \text{ cm}$$

Height of a solid right circular cylinder = 14 cm

Volume of a solid right circular cylinder =  $\pi r^2 h = \frac{22}{7} \times \frac{21}{2} \times \frac{21}{2} \times 14 = 4851 \text{ cm}^3$

74. D

Sol. The cost of manufacturing an item was Rs. 24,000, and 20% of it was spent on packaging and its shipment to a retailer.

$$\text{Net cost price of item} = 24000 + 24000 \times \frac{20}{100} = 24000 + 4800 = \text{Rs. 28800}$$

The manufacturer made a profit of 50%.

Selling price of item for manufacturer =

$$28800 + 28800 \times \frac{50}{100} = 28800 + 14400 = \text{Rs. 43200}$$

Cost price of item for retailer = Rs. 43200

While the retailer incurred a loss of 20% in selling it to a customer.

$$\text{Selling price of item for retailer} = 43200 - 43200 \times \frac{20}{100} = 43200 - 8640 = \text{Rs. 34560}$$

75. C

Sol. Total number of students in Economics and Psychology = 96 + 84 = 180

Total number of students in History, Political Science and Sociology = 160 + 120 + 125 = 405

$$\text{Required percentage} = \frac{180}{405} \times 100 = 44.44\%$$

76. A

- Sol.
- **Mir Jafar was made the Nawab of Bengal following the Battle of Plassey.**
  - **Battle of Plassey** was a **decisive victory of the British East India Company over the Nawab of Bengal** and his **French allies on 23 June 1757**.
  - It helped the **Company seize control of Bengal**.
  - **Mir Jafar** became the **first dependent Nawab of Bengal of the British East India Company**.
  - **Alivardi Khan** was the **Nawab of Bengal from 1740 to 1756**.
  - **Sirajuddaulah** was the **last independent Nawab of Bengal**.

77. B

- Sol. • The Kodava community of Coorg worships weapons during the Kailpodh festival.  
• Kailpodh festival is also known as the festival of weapons and harvest.  
• It is the time for the Kodavas to feast after involving in the hard labour of the ploughing.  
• It marks an end to the sowing season and alerts men to prepare for the protection of their crops from the wild.  
• Madai festival is one of many popular festivals of Sanskritik Chhattisgarh.  
• Thaipusam is a festival celebrated by the Hindu Tamil community on the full moon in the Tamil month of Thai.

78. C

- Sol. • Sunlight consists of Seven colours.  
• It splits into seven colours namely violet, indigo, blue, green, orange and red.  
• It is obvious as daylight when the Sun is above the horizon.  
• It is a portion of the electromagnetic radiation given off by the Sun.  
• It takes about 8.3 minutes to reach Earth from the surface of the Sun.  
• It is a key factor in photosynthesis, the process used by plants and other autotrophic organisms to convert light energy.

79. A

- Sol. • The Kamakhya Temple is located in Guwahati.  
• It is a Hindu temple and it is dedicated to the mother goddess Kamakhya.  
• It is one of the oldest and most revered centres of Tantric practices.  
• It is the center of the Kulachara Tantra Marga and the site of the Ambubachi Mela.  
• It is one of the holiest places for Hindus and one of the oldest of the 51 pithas in the Shakta tradition.  
• It is believed to be the place where the womb of the goddess fell.  
• It was built during the Mlechcha dynasty in the 8th - 9th century.

80. A

- Sol. • The monthly maintenance amount of Rs 10000 payable by children to parents, set by the Maintenance and Welfare of Parents and Senior Citizens Bill, 2007, was removed by the Maintenance and Welfare of Parents and Senior Citizens (Amendment) Bill, 2019.
- Maintenance and Welfare of Parents and Senior Citizens Act 2007 is to provide more effective provision for maintenance and welfare of parents and senior citizens.
  - It also provides a simple, speedy and inexpensive mechanism for the protection of the life and property of older persons.
  - The Maintenance and Welfare of Parents and Senior Citizens Bill, 2019 aims to protect senior citizens and parents including those who are neglected and are unable to support themselves.

81. C

- Sol. • Gross National Happiness implies that sustainable development should take a holistic approach towards notions of progress and give equal importance to non-economic aspects of wellbeing.
- It includes an index that is used to measure the collective happiness and well-being of a population.
  - Gross domestic product is a monetary measure of the market value of all the final goods and services produced in a specific time period.
  - Gross national product is an estimate of the total value of all the final products and services turned out in a given period by the means of production owned by a country's residents.
  - Net National product corresponds to gross national product minus depreciation.

82. A

- Sol. • India Divided is written by Rajendra Prasad.
- It is an important historical document and a very authentic book.

- It is a **detailed** and **authoritative account** of the partition of India into Hindu and Muslim sections.
- **Glimpses of World History** is a book published by Jawaharlal Nehru in 1934.
- '**An Autobiography: Toward Freedom**' was written by Jawaharlal Nehru.
- **Rajendra Prasad** was the **1st President of India** and **1st Minister of Agriculture**.

83. C

Sol. • **The History of British in India** was written by James Mill, a Scottish economist, in 1817.

- It is a three-volume work charting the history of Company rule in India.
- **Poverty and un-British rule in India** was a book written by Dadabhai Naoroji.
- **A Passage to India** was a 1924 novel written by English author E. M. Forster.
- **Great Mutiny** was a book written by Christopher Hibbert.
- It is a beautifully written and meticulously researched narrative history of the great Indian uprising of 1857.

84. D

Sol. • **India's rank in the Human Development Index-2019** released by the United Nations Development Programme is 129.

- The **2019 Human Development Report** is the latest in the series of global Human Development Reports.
- The **Human Development Index-2019** was created to emphasize that people and their capabilities should be the ultimate criteria for assessing the development of a country, not economic growth alone.
- It is the **geometric mean of normalized indices** for each of the three dimensions.
- It includes **all 193 United Nations member states**, as well as the State of Palestine and Hong Kong SAR.

85. B

- Sol. • Moved by the Swadeshi Movement, Abanindranath Tagore painted his famous image of Bharat Mata portraying her as an ascetic figure.
- Abanindranath Tagore founded the influential Bengal school of art.
- He was also the first major exponent of Swadeshi values in Indian art.
- Satyendranath Tagore was the first Indian who became an Indian Civil Service officer in 1864.
- Jyotirindranath Tagore was a playwright, musician, editor and painter.
- Dwijendranath Tagore was one of the pioneers of shorthand and notation in Bengali script.

86. A

- Sol. • Hafiz was a 14th-century poet whose collection of poems is known as 'Diwan' or 'Diwan-e-Hafiz'.
- He was a Persian lyric poet whose collected works are regarded by many Iranians as a pinnacle of Persian literature.
- He is best known for his Divan of Hafez, a collection of his surviving poems probably compiled after his death.
- He primarily wrote in the literary genre of lyric poetry or ghazals.
- He was acclaimed throughout the Islamic world during his lifetime.
- He is the most popular poet in Iran and his works can be found in almost every Iranian home.

87. C

- Sol. • Rabies is not caused by ingesting polluted water.
- It is a viral disease that causes inflammation of the brain in humans and other mammals.
- It is caused by lyssaviruses, including the rabies virus and Australian bat lyssavirus.
- It is spread when an infected animal bites or scratches humans or other animals.

- **Cholera** is an **infection of the small intestine by some strains of the bacterium Vibrio cholerae**.
- **Meningitis** is an **inflammation of the protective membranes covering the brain and spinal cord**.

88. D

- Sol.
- **Rohit Sharma** is the first Indian cricketer to have twin centuries in his maiden appearance as a test opener.
  - He is the **captain of the Indian national team in limited-overs formats and the vice-captain in Test cricket**.
  - He also **holds the world record of being the fastest to 23,000 international runs**.
  - **Virat Kohli** is the **former captain of the Indian national team** and He is often **considered one of the best batsmen of his era**.
  - **MS Dhoni** is currently the **captain of Chennai Super Kings**.
  - He is often **considered the greatest captain of the Indian cricket team**.
  - **Shikhar Dhawan** became the **first player in the history of IPL to score two back-to-back centuries**.

89. A

- Sol.
- **Zinc + Sulphuric acid → Zinc sulphate + Hydrogen**.
  - **Zinc** is the **first element in group 12 of the periodic table**.
  - It is the **24th most abundant element in Earth's crust**.
  - **Sulphuric acid** is a **mineral acid composed of the elements sulfur, oxygen and hydrogen**.
  - **Hydrogen** is the **lightest element** and is the **most abundant chemical substance in the universe**.
  - **Carbon** is the **15th most abundant element in the Earth's crust** and the **fourth most abundant element in the universe by mass**.

- Chlorine is the **second-lightest of the halogens** and It is a **yellow-green gas at room temperature**.

90. B

Sol. • **Sadio Mane** is a professional football player.

- He plays as a **winger** for Premier League club Liverpool and the **Senegal national team**.
- He was cited as **one of the Top 100 most influential Africans** by New African magazine in **2020**.
- **Boris Gelfand** is a Soviet-born Israeli chess player.
- **Peter Svidler** is a Russian chess grandmaster and an eight-time Russian Chess Champion.
- **Magnus Carlsen** holds the record for the longest unbeaten streak at the top level in classical chess.

91. D

Sol. • Thyme leaves are not a natural acid-base indicator.

- Thyme is a herb with a distinct smell and It contains chemicals that might help bacterial and fungal infections.
- Red cabbage indicator contains a water-soluble pigment called anthocyanin that changes colour when it is mixed with an acid or a base.
- Geranium flowers are an indicator that contains the anthocyanin pelargonidin, which changes from orange-red in an acidic solution to blue in a basic solution.
- Petunia flowers indicator change from reddish to purple in an acidic solution to violet in a basic solution.

92. A

Sol. • **The Buxa Tiger Reserve in West Bengal is threatened by the ongoing Dolomite mining.**

- It was created in 1983 as the 15th tiger reserve in India and It is covering an area of 760 km<sup>2</sup>.
- The common mammals are Asian elephant, Gaur, Sambar deer, Clouded leopard, Indian leopard.
- West Bengal is also the eighth-most populous country subdivision of the world.
- It is the fourth-most populous state and the fourteenth-largest state by area in India.

93. B

- Sol.
- The princely state Awadh was annexed by the British under the pretext of the misgovernment of the Nawab'.
  - Awadh is a region and proposed state in the modern Indian state of Uttar Pradesh.
  - Udaipur is the historic capital of the kingdom of Mewar and It was founded in 1559 by Udai Singh II of the Sisodia clan of Rajput.
  - Nagpur is the third-largest city and the winter capital of the Indian state of Maharashtra.
  - Satara is famous for the Kaas Plateau, Thoseghar and a lot of natural sites present in the vicinity of the city.

94. C

- Sol.
- The Hilton Young Commission recommended the establishment of a central bank to be called the 'Reserve Bank of India' in 1929 the Reserve Bank of India is incorrect.
  - The Reserve Bank of India is India's central bank and regulatory body.
  - It manages the country's main payment systems and works to promote its economic development.
  - It is responsible for the issue and supply of the Indian rupee & the regulation of the Indian banking system.
  - It is also active in promoting financial inclusion policy and is a leading member of the Alliance for Financial Inclusion.

95. C

- Sol. • A dividend declared by a company but not paid or claimed within 30 days from the date of declaration is to be transferred to the Unpaid Dividend Account as per the Companies Act, 2013.
- Dividend can be defined as the sum of money paid by a company, to its shareholders, out of the profits made by a company.
  - Section 123 to 127 of Chapter VIII deals with the provisions related to the declaration and payment of dividends.
  - The company is required to deposit the amount of dividend so declared within 5 days from the date of declaration of Dividend.
  - It is required to make the payment within 30 days of declaration of dividend failing which the company will be liable to pay interest @18% p.a. for the period of default.

96. A

- Sol. • The Yamuna is a snow-fed river.
- It is the second-largest tributary river of the Ganges by discharge and the longest tributary in India.
  - It is highly venerated in Hinduism and worshipped as the goddess Yamuna.
  - Kaveri is also one of the seven holy rivers of India and It is a sacred river to the people of South India.
  - Narmada River is the 5th longest river and overall longest west-flowing river in India.
  - It is also known as the LifeLine of Madhya Pradesh and Gujarat.
  - The Godavari is India's second-longest river and third largest in India.

97. D

- Sol. • The first jute mill was set up at Rishra in Kolkata in 1859.
- The Acland Mill was the first jute mill established in India and It was established in 1855.

- It was established by British entrepreneur George Acland and Bengali financier Babu Byssumber Sen.
- Howrah is the second-largest city in the Indian state of West Bengal and It is located on the western bank of the Hooghly River.
- Kolkata is the capital of the Indian state of West Bengal and It is located on the eastern bank of the Hooghly River.

98. C

- Sol.
- The Vernacular Press Act was enacted in British India in the year 1878.
  - It was enacted to curtail the freedom of the Indian press and prevent the expression of criticism toward British policies.
  - It was proposed by Lytton and was unanimously passed by the Viceroy's Council on 14 March 1878.
  - The Transfer of Property Act 1882 is Indian legislation that regulates the transfer of property in India.
  - It contains specific provisions regarding what constitutes a transfer and the conditions attached to it.
  - The Indian Contract Act prescribes the law relating to contracts in India and It came into force on 1 July 1882.

99. D

- Sol.
- Lead and mercury are the best conductors of heat is an incorrect statement.
  - Mercury is a poor conductor of heat but a fair conductor of electricity.
  - It is the only metallic element that is liquid at standard conditions for temperature and pressure.
  - Lead is soft and malleable and it is also has a relatively low melting point.
  - It is the poor conductor of heat & electricity and It is a relatively unreactive post-transition metal.
  - It also affects general health, cardiovascular and renal systems.

100. C

- Sol.
- **Mopin**, a festival of the Galo tribe of Arunachal Pradesh, is celebrated in April every year.
  - It is a celebration of the harvesting season held in the Galo months of Lumi and Luki.
  - The official date of the Mopin Festival is fixed on April 5.
  - It is believed to bring wealth and prosperity to all households and to the whole community.
  - **Me Dam Me Phi** is one of the main religious ceremonies celebrated by the people of Assam.
  - **Ali-Aye-Ligang** is a spring festival associated with agriculture and it marks the onset of sowing seeds.

# Mock Test Solutions in Hindi

## Questions



Today, banking in a seamless world \_\_\_\_\_ a distinct reality.



3. Select the most appropriate one-word substitution for the given words.

One who interferes in the affairs of others, often for selfish reasons

- |               |                |
|---------------|----------------|
| A. stranger   | B. interpreter |
| C. interloper | D. foreigner   |

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

## To get on the nerves

- A. To irritate
  - B. To give medicine
  - C. To have an illness
  - D. To soothe

5. 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'.

During the winter months the bears go without food by nearly six to seven months.



- 6. Select the INCORRECTLY spelt word.**



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

## PROTEST (v.)

- |           |            |
|-----------|------------|
| A. favour | B. support |
| C. assist | D. Object  |

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

The \_\_\_\_\_ for a vaccine could take up to a year.

- A. search
  - B. chase
  - C. pursuit
  - D. Track

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

I hope your parents \_\_\_\_\_ soon.

- A. are recovering
  - B. recover
  - C. should recover
  - D. are recover

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

Many tales evoke the memory of Akbar and Birbal.

- |             |              |
|-------------|--------------|
| A. populist | B. populated |
| C. populous | D. popular   |

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

Have you decided what you want to become when you grown up.



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

Seldom has the discoveries of the world's greatest discoverers, like Copernicus or Galileo, been forgotten.



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

By the same token

- A. In the same bus
  - B. Use the same ticket
  - C. Use the same password
  - D. In the same way

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

# INDULGENCE

- |             |                  |
|-------------|------------------|
| A. Leniency | B. attentiveness |
| C. accuracy | D. Diligence     |

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

We do hope you are enjoy this online course in art and craft.

- A. this online course
  - B. We do hope
  - C. in art and craft
  - D. you are enjoy

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

## NARROW

- A. tight
  - B. wide
  - C. firm
  - D. Solid

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

I can't live at a place which is far from the sea.



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

Restore (someone) to health or normal life after imprisonment, addiction, or illness

- |                 |              |
|-----------------|--------------|
| A. rehabilitate | B. reinstate |
| C. renovate     | D. Refurbish |

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

SLY



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

There are many birds in the verandah today. Hema, please feed those.

- A. feed them
  - B. fed them
  - C. fed those
  - D. No substitution required

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

One day while the magistrate was walking (###Q1###) a market, he saw a crowd outside a poultry shop. (###Q2###) enquiring what the matter was (###Q3###) learnt that a peasant had accidentally (###Q4###) a heavy sack on a chicken, (###Q5###) it to death.

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

- A. along
  - B. through
  - C. over
  - D. aside

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



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

- A. him
  - B. she
  - C. they
  - D. He

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

- A. dropped
  - B. filled
  - C. selected
  - D. Picked

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

- |             |              |
|-------------|--------------|
| A. creeping | B. crushing  |
| C. covering | D. Crumbling |

26. जिस प्रकार 'सिलाई' का संबंध 'दर्जी' से है उसी प्रकार 'पेंटिंग' का संबंध '\_\_\_\_\_ ' से है।



27. अभय के अंकल ने उसे कोंकण से कुछ आम भेजे। यदि उसे प्रतिदिन निश्चित संख्या में कुछ आम खाने पड़ते, तो वे 60 दिनों तक चलते। लेकिन, अभय का कजिन राजीव उसके साथ छुट्टियां बिताने आ जाता है और दोनों ने 36 दिनों में आमों को खत्म कर दिया। यदि राजीव अकेले आम खाता, तो वे कितने दिनों तक चलते?

- A. 72      B. 90

C. 180

D. 120

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

128, 116, 126, 118, 124, ?

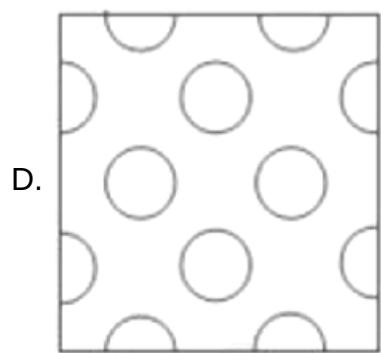
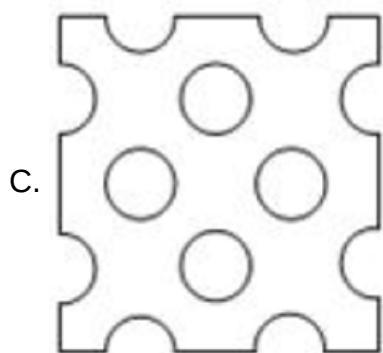
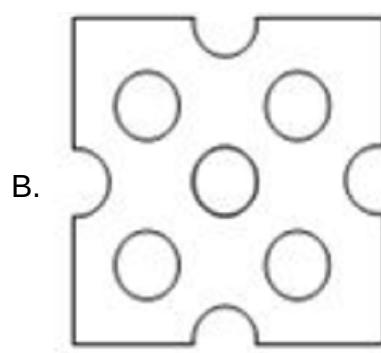
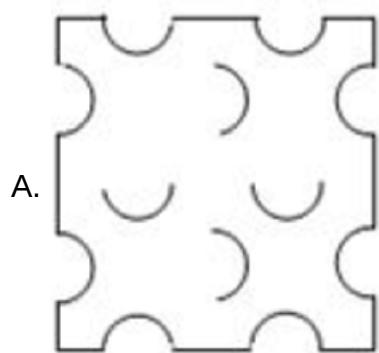
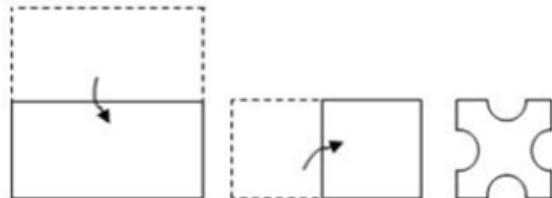
A. 118

B. 120

C. 122

D. 124

29. एक कागज को मोड़ा और काटा जाता है जैसा कि निम्नलिखित आकृति में दिखाया गया है। कागज को खोले जाने पर यह कैसा दिखाई देगा?



30. यदि एक निश्चित कूट भाषा में FEVERISH को 29 के रूप में और COUNSEL को 98 के रूप में कूटबद्ध किया जाता है, तो उसी कूट भाषा में MUTATED को कैसे कूटबद्ध किया जाएगा?

A. 48

B. 80

C. 92

D. 84

31. उस संख्या-युग्म का चयन करें जिसमें संख्याएं उसी प्रकार संबंधित हैं जिस प्रकार निम्नलिखित युग्म की संख्याएं संबंधित हैं।

144 : 168

A. 64 : 82

B. 169 : 159

C. 121 : 143

D. 81 : 100

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

खलनायक : नायक ; : शैतान : ?

A. धर्मात्मा

B. देवदूत

C. भगवान्

D. देवी

33. 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:**

कुछ पैन बोतल हैं ।

सभी बोतल, मग हैं ।

**निष्कर्ष:**

I. सभी मग, बोतल हैं ।

II. कुछ मग, पैन हैं ।

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

B. केवल निष्कर्ष । अनुसरण करता है

C. केवल निष्कर्ष ॥ अनुसरण करता है

D. दोनों निष्कर्ष । और ॥ अनुसरण करते हैं

34. एक विद्यालय की प्रातःकालीन प्रार्थना में चंचल आगे से 8वें स्थान पर थी, जबकि उसी पंक्ति में पिरंस पीछे से 11वें स्थान पर था । यदि वे अपने स्थानों की अदला-बदली करते हैं, तो चंचल आगे से 22वें स्थान पर आ जाती है । पंक्ति में विद्यार्थियों की संख्या कितनी है?

A. 32

B. 30

C. 31

D. 33

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

VSP, NKH, FCZ, ?



36. उस समुच्चय का चयन कीजिए जिसमें संख्याएं उसी प्रकार संबंधित हैं जिस प्रकार निम्नलिखित समुच्चय की संख्याएं संबंधित हैं।

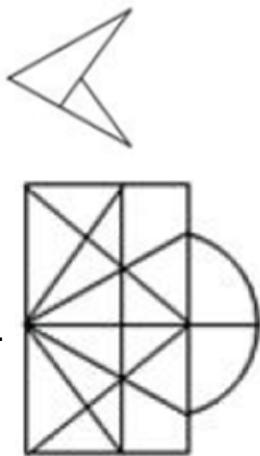
(4, 3, 35)

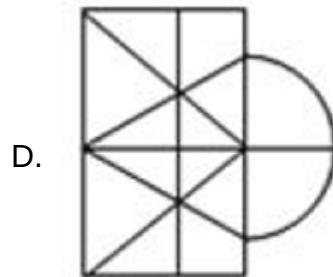
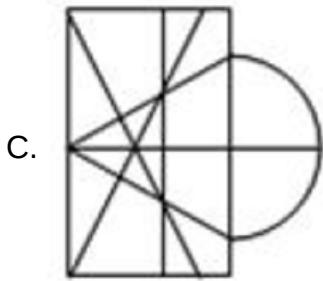
- A. (8, 13, 110)      B. (6, 9, 65)  
C. (7, 12, 95)      D. (9, 18, 153)

37. एक निश्चित कूट भाषा में, यदि GLOWING को GGILNOW के रूप में लिखा जाता है, तो उसी कूट भाषा में OBVIOUS को किस प्रकार लिखा जाएगा?



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








FLUIDITY : YUTLIIFD :: IMPROVISE : ?



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

$$87 \times 2 - 65 + 182 \div 38 = 155$$



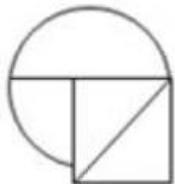


43. निम्नलिखित संख्या शूरूखला में कौन-सी संख्या प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगी?

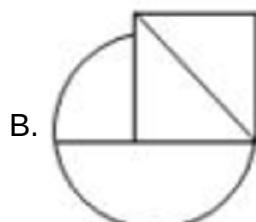
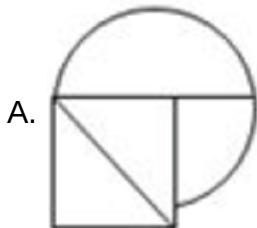
6, 11, 18, 27, 38, ?

C. 54

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



D. 53






$$46 * 72 * 18 * 27 * 135 = 19$$

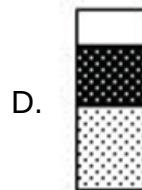
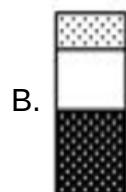
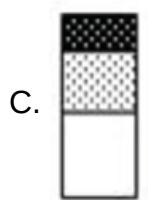
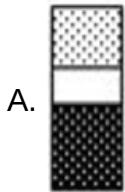
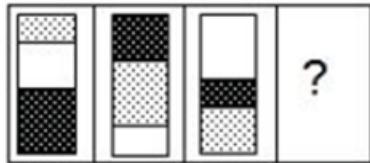
$$A = x \div +$$

$B_1 \times_1 \div_1 -_1 +_1$

C. +, ÷, ×, -

D. ÷, -, +, ×

47. उस आकृति का चयन करें जो निम्नलिखित आकृति शरंखला में परश्नवाचक चिह्न (?) को प्रतिस्थापित करेगी।



48. दो कथन दिए गए हैं, जिसके बाद दो निष्कर्ष संख्या I और II 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:**

I. सभी कप, प्लेट हैं।

II. कुछ प्लेट, सॉसर हैं।

**निष्कर्ष:**

I. सभी प्लेट, कप हैं।

II. कुछ कप, सॉसर हैं।

A. दोनों निष्कर्ष | और II अनुसरण करते हैं

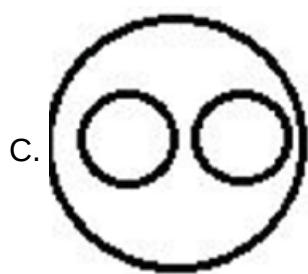
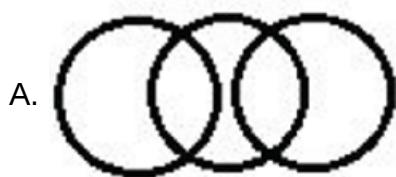
C. न तो निष्कर्ष | न ही | अनुसरण करता है

B. केवल निष्कर्ष II अनुसरण करता है

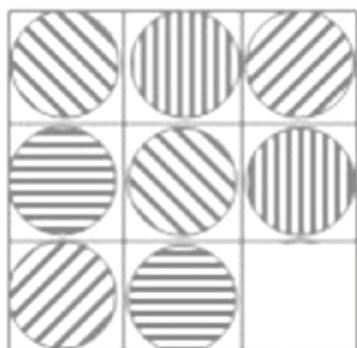
D. केवल निष्कर्ष I अनुसरण करता है

49. दिए गए विकल्पों में से उस वेन आरेख का चयन करें जो निम्नलिखित वर्गों के बीच के संबंध को सर्वोत्तम रूप से दर्शाता है:

पेसिल, शॉर्पनर, लीड



50. उस विकल्प आकृति को पहचानें जो पैटर्न को पूरा करती है।



51. यदि  $x$  और  $y$  विपरीत चिह्न वाली दो संख्याएँ हैं और  $x^2 : y^2 = 16:81$ , तो  $\frac{3x+4y}{2x-3y}$  का मान क्या होगा?

A.  $\frac{12}{25}$

B.  $-\frac{27}{40}$

C.  $-\frac{24}{35}$

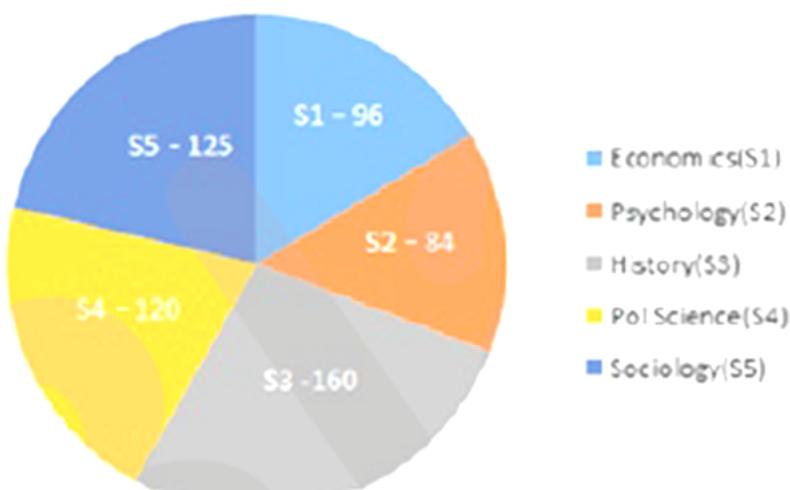
D.  $\frac{48}{35}$

52.

$$1\frac{4}{11} \div \left\{ \left[ \frac{11}{80} \div \frac{3}{4} \left( \frac{1}{4} - \frac{1}{3} \times \frac{1}{5} \right) \div 1\frac{5}{6} \right] + \frac{9}{11} \right\} \text{का मान क्या होगा?$$

60. एक खुदरा विक्रेता सप्ताह के सभी सातों दिन अपना आउटलेट खोलता है। यह देखा गया कि शनिवार और रविवार को मिलाकर उसकी औसत बिक्री 300 रुपये और शेष पांच दिनों के लिए 200 रुपये है। शनिवार से शुरू होने वाले महीने के लिए यह पाया गया कि कुल बिक्री 7,000 रुपये थी। निम्नलिखित में से कौन सा महीना हो सकता है?
- A. मार्च B. अप्रैल  
C. जनवरी D. फरवरी
61. 2012 में सामाजिक विज्ञान के क्षेत्र में कॉलेज में डिग्री कोर्स के प्रथम वर्ष में प्रवेश लेने वाले छात्रों की संख्या इस प्रकार थी: अर्थशास्त्र (S1) - 96, मनोविज्ञान (S2) - 84, इतिहास (S3) - 160, राजनीति विज्ञान (S4) - 120, समाजशास्त्र (S5) - 125, दिए गए पाई चार्ट के माध्यम से विभिन्न विषयों में छात्रों का विवरण प्रस्तुत किया गया है।
- पाई चार्ट का अध्ययन करें और नीचे दिए गए प्रश्न का उत्तर दें।

The number of students taking admission in the First Year of Degree Course at a college in areas of Social Sciences in 2012



2013 में, समाजशास्त्र के 20% छात्र, राजनीति विज्ञान के 25% छात्र और अर्थशास्त्र के एक-छठे छात्र दूसरे कॉलेज में स्थानांतरित हो गए और इतिहास के छात्रों की संख्या अन्य कॉलेजों से स्थानांतरित होने के कारण 10% बढ़ गई। इसके अलावा शेष समाजशास्त्र के 10% छात्र और मनोविज्ञान के एक-सातवें छात्र अर्थशास्त्र में स्थानांतरित हो गए। पाई चार्ट में इतिहास के अनुरूप क्षेत्र का केंद्रीय कोण (निकटतम डिग्री तक) क्या होगा, जो 2013 में ब्रेक-अप का प्रतिनिधित्व करने वाले चार्ट का प्रतिनिधित्व करता है?

- A. 112 B. 120  
C. 102 D. 126
62. एक वस्तु का अंकित मूल्य 400 रुपये है। एक दुकानदार इसके अंकित मूल्य पर 12% और 20% की दो क्रमिक छूट देकर बेचता है। यदि वह 10% का लाभ अर्जित करता है, तो वस्तु का क्रय मूल्य क्या होगा?
- A. 250 B. 260

- C. 256 D. 268

63. 5 से शुरू होने वाली लगातार दस विषम संख्याओं पर विचार करें। पहले और दूसरे को छोड़कर उनमें से प्रत्येक को तीन से गुणा करें। इस प्रकार बनी दस संख्याओं का औसत क्या होगा?

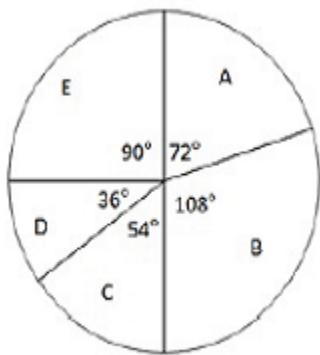
A. 39.6 B. 39  
C. 42 D. 38.4

64. एक लंब वृत्तीय शंकु के आकार का एक पात्र जिसकी त्रिज्या और गहराई बराबर है, 128000 गोलाकार बूँदों से पूरी तरह से भर जाता है, प्रत्येक व्यास 2 मिमी है। पात्र की त्रिज्या (सेमी में) क्या होगी?

A. 6 B. 4  
C. 8 D. 2

65. दिए गए पाई चार्ट का अध्ययन करें और उसके अनुसार प्रश्नों के उत्तर दें।

पाई चार्ट खिलाड़ियों का संख्या वितरण (डिग्री-वार) दर्शाता है जो पांच खेल अर्थात् A,B,C,D और E खेलते हैं (मानें कि प्रत्येक खिलाड़ी केवल एक खेल खेलता है)



यदि खेल Q को खेलने वाले खिलाड़ियों की संख्या 162 है तो कुल खिलाड़ियों की संख्या के बीच अंतर ज्ञात कीजिए जो खेल A और E खेलते हैं?

करने में x दिन और y घंटे लगते हैं तो  $(x, y)$  \_\_\_\_\_ है।

- A. (34, 2)      B. (33, 2)  
C. (34, 4)      D. (33, 4)

68. Simplify  $\frac{\left(3 + \frac{3}{2} \div 6\frac{1}{2} \times \frac{1}{3}\right) \text{ of } 4\frac{1}{3}}{\left(-\frac{8}{3} \div 2\right)}$

- A. 10      B.  $\frac{30}{13}$   
C. -10     D.  $\frac{40}{3}$

69. पृथ्वी अपनी धुरी पर 135 डिग्री के कोण से घूमने में कितना समय (सेकंड में) लेती है?



70. एक फल विक्रेता बाजार में 1092 सेब और 3432 संतरे लाता है। वह उन्हें समान संख्या में संतरे और सेब के ढेर में इस तरह व्यवस्थित करता है कि प्रत्येक ढेर में फलों की अधिकतम संभव संख्या हो। यह संख्या क्या होगी?



71. एक विक्रेता किसी वस्तु की बिक्री को बढ़ावा देने की दृष्टि से साधारण ब्याज के सिद्धांत को लागू करता है। वह घोषणा करता है कि नकद भुगतान के बदले वस्तु के 300 टुकड़े तुरंत प्राप्त किए जा सकते हैं लेकिन एक ग्राहक को वस्तु के केवल 200 टुकड़े मिलेंगे यदि वह एक वर्ष के लिए भुगतान को स्थगित करता है। कुल पर ब्याज की दर प्रतिशत क्या होगी?



72. ब्याज की वार्षिक चक्रवृद्धि के आधार पर निवेश की गई 6,400 रुपये की राशि दो वर्षों में बढ़कर 7,056 रुपये हो जाती है। ब्याज की प्रतिशत दर क्या होगी?



73. एक ठोस लम्ब वृत्तीय बेलन का कुल पृष्ठीय क्षेत्रफल 1617 सेमी<sup>2</sup> है। यदि इसके आधार का व्यास 21 सेमी है तो इसका आयतन क्या होगा (लें  $\pi = 22/7$ )?

- |         |         |
|---------|---------|
| A. 5324 | B. 3971 |
| C. 4851 | D. 5228 |

74. एक वस्तु के निर्माण की लागत 24,000 रुपये थी और इसका 20% पैकेजिंग और एक खुदरा विक्रेता को इसकी शिपमेंट पर खर्च किया गया। निर्माता को 50% का लाभ हुआ जबकि खुदरा विक्रेता को इसे ग्राहक को बेचने में 20% की हानि हुई। फुटकर विक्रेता द्वारा वस्तु को किस कीमत पर (रुपये में) बेचा गया?

A. 32,400

B. 37,664

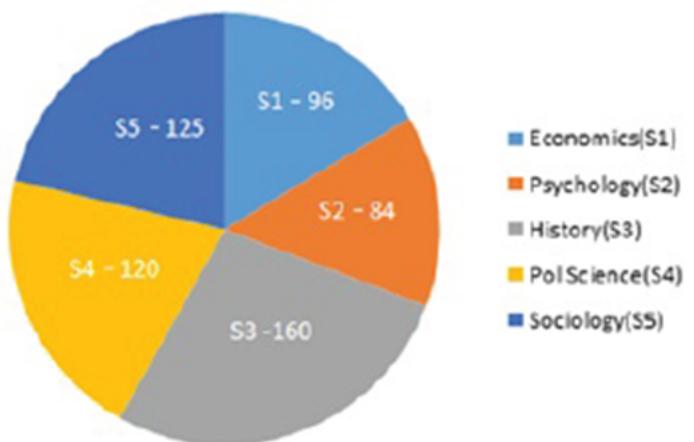
C. 35,268

D. 34,560

75. 2012 में सामाजिक विज्ञान के क्षेत्रों में एक कॉलेज में डिग्री कोर्स के प्रथम वर्ष में प्रवेश लेने वाले छात्रों की संख्या इस प्रकार थी: अर्थशास्त्र (S1) - 96, मनोविज्ञान (S2) - 84, इतिहास (S3) - 160, राजनीति विज्ञान (S4) - 120, समाजशास्त्र (S5) – 125, विभिन्न विषयों में छात्रों के बरेकअप को दिए गए चित्र चार्ट के माध्यम से प्रस्तुत किया गया है।

पाई चार्ट का अध्ययन करें और नीचे दिए गए प्रश्न का उत्तर दें।

The number of students taking admission in the First Year of Degree Course at a college in areas of Social Sciences in 2012



अर्थशास्त्र और मनोविज्ञान में छात्रों की कुल संख्या इतिहास, राजनीति विज्ञान और समाजशास्त्र में छात्रों की कुल संख्या का कितना प्रतिशत है (दो दशमलव स्थानों तक सही)?

A. 33.33

B. 46.48

C. 44.44

D. 22.28

76. प्लासी के युद्ध के बाद किसे बंगाल का नवाब बनाया गया था?

A. मीर जाफ़र

B. अलीवर्दी खान

C. सिराजुद्दौला

D. मीर कासिम

77. कूर्ग का कोडवा समुदाय \_\_\_\_\_ उत्सव के दौरान हथियारों की पूजा करता है।

A. मदाई

B. कैलपोध

C. थाईपुसम

D. भगोरिया

78. सूर्य का प्रकाश कितने रंगों से मिलकर बना होता है?

A. तीन

B. दो

C. सात

D. पांच

79. कामाख्या मंदिर \_\_\_\_\_ में स्थित है।

A. गुवाहाटी

B. कोहिमा

C. इंफाल

D. अगरतला

80. माता-पिता और वरिष्ठ नागरिकों के भरण-पोषण और कल्याण विधेयक, 2007 द्वारा निर्धारित माता-पिता को बच्चों द्वारा देय \_\_\_\_\_ की मासिक भरण-पोषण राशि, माता-पिता और वरिष्ठ नागरिकों के भरण-पोषण और कल्याण (संशोधन) विधेयक, 2019 द्वारा हटा दी गई थी।

A. 10,000

B. 5,000

C. 12,000

D. 8,000

81. निम्नलिखित में से किस अवधारणा का तात्पर्य है कि सतत विकास को प्रगति की धारणाओं के प्रति समग्र दृष्टिकोण अपनाना चाहिए और भलाई के गैर-आर्थिक पहलुओं को समान महत्व देना चाहिए?

A. सकल घरेलू उत्पाद

B. सकल राष्ट्रीय उत्पाद

C. सकल राष्ट्रीय प्रसन्नता

D. शुद्ध राष्ट्रीय उत्पाद

82. निम्नलिखित में से कौन सी पुस्तक राजेंद्र प्रसाद द्वारा लिखी गई है?

A. इंडिया डिवाइड

B. एन ऑटोबायोग्राफी: ट्रुवडर्स फ्रीडम

C. द डिस्कवरी ऑफ इंडिया

D. गिल्म्पसेज ऑफ वर्ल्ड हिस्ट्री

83. स्कॉटिश अर्थशास्त्री जेम्स मिल ने 1817 में निम्नलिखित में से कौन सी पुस्तक लिखी थी?

A. पावर्टी एंड अन-ब्रिटिश रूल इन इंडिया

B. ए पैसेज टू इंडिया

C. द हिस्ट्री ऑफ ब्रिटिश इन इंडिया

D. द ग्रेट स्युटिनी

84. संयुक्त राष्ट्र विकास कार्यक्रम (यूएनडीपी) द्वारा जारी मानव विकास सूचकांक-2019 में भारत का स्थान क्या था?

A. 141

B. 132

C. 112

D. 129

85. स्वदेशी आंदोलन से प्रेरित होकर, \_\_\_\_\_ ने भारत माता की अपनी प्रसिद्ध छवि को एक तपस्वी व्यक्ति के रूप में चित्रित किया।

A. सत्येंद्रनाथ टैगोर

B. अबनिंद्रनाथ टैगोर

C. ज्योतिरिंद्रनाथ टैगोर

D. द्विजेंद्रनाथ टैगोर

86. हाफिज (हाफ़िज़) \_\_\_\_\_ सदी के एक कवि थे जिनकी कविताओं का संग्रह 'दीवान' या 'दीवान-ए-हाफ़िज़' के नाम से जाना जाता है।

A. 14वीं

B. 15वीं

C. 16वीं

D. 17वीं

87. निम्नलिखित में से कौन-सा रोग प्रदूषित जल के अंतर्ग्रहण से नहीं होता है?

A. टाइफाइड

B. हैजा

C. रेबीज

D. मेनिनजाइटिस

88. टेस्ट सलामी बल्लेबाज के रूप में अपने पदार्पण मैच में दोहरा शतक बनाने वाले पहले भारतीय क्रिकेटर कौन हैं?
- A. शिखर धवन      B. एमएस धोनी  
C. विराट कोहली      D. रोहित शर्मा
89. जिंक + सल्फ्यूरिक एसिड → जिंक सल्फेट + \_\_\_\_\_ |
- A. हाइड्रोजन      B. नाइट्रोजन  
C. कार्बन      D. क्लोरीन
90. निम्नलिखित में से कौन एक पेशेवर फुटबॉल खिलाड़ी है?
- A. बोरिस गेलफैंड      B. सेडियो माने  
C. पीटर स्विडलर      D. मैग्नस कार्लसन
91. निम्नलिखित में से कौन एक प्राकृतिक अम्ल-क्षार संकेतक नहीं है?
- A. जेरेनियम फूल      B. लाल पत्ता गोभी के पत्ते  
C. पेटुनिया फूल      D. अजवायन की पत्ती
92. पश्चिम बंगाल में बुक्सा टाइगर रिजर्व को खतरा है:
- A. डोलोमाइट खनन      B. तांबे का खनन  
C. मैग्नेटाइट खनन      D. हेमेटाइट खनन
93. निम्न में से किस रियासत को नवाब की कुशासन के बहाने अंग्रेजों ने अपने अधिकार में ले लिया था?
- A. उदयपुर      B. अवधी  
C. नागपुर      D. सतारा
94. भारतीय रिजर्व बैंक के संदर्भ में निम्नलिखित में से कौन सा कथन गलत है?
- A. 1931 में, भारतीय केंद्रीय बैंकिंग जांच समिति ने भारतीय रिजर्व बैंक को भारत के लिए केंद्रीय बैंक के रूप में स्थापित करने के मुद्दे को पुनर्जीवित किया ।  
B. भारतीय रिजर्व बैंक ने 1935 में परिचालन शुरू किया ।  
C. 1929 में, हिल्टन यंग कमीशन ने 'भारतीय रिजर्व बैंक' कहलाने वाले एक केंद्रीय बैंक की स्थापना की सिफारिश की ।  
D. भारतीय रिजर्व बैंक अधिनियम 1934 में अधिनियमित किया गया था ।
95. कंपनी अधिनियम, 2013 के अनुसार, एक कंपनी द्वारा घोषित लाभांश, लेकिन घोषणा की तारीख से \_\_\_\_\_ दिनों के भीतर भुगतान या दावा नहीं किया गया है, अवैतनिक लाभांश खाते में स्थानांतरित किया जाना है ।
- A. 120      B. 60  
C. 30      D. 90
96. निम्नलिखित में से कौन-सी हिमपात वाली नदी है?
- A. यमुना      B. गोदावरी  
C. कावेरी      D. नर्मदा

97. 1859 में कोलकाता में पहली जूट मिल कहाँ स्थापित की गई थी?

A. श्रीरामपुर  
B. मेसरा  
C. हावड़ा  
D. रिशरा

98. निम्नलिखित में से कौन सा अधिनियम वर्ष 1878 में ब्रिटिश भारत में अधिनियमित किया गया था?

A. भारतीय संविदा अधिनियम  
B. संपत्ति का हस्तांतरण अधिनियम  
C. वर्नाक्युलर प्रेस एक्ट  
D. ईस्ट इंडिया स्टॉक डिविडेंड रिडेम्पशन एक्ट

99. निम्नलिखित में से कौन सा कथन गलत है?

A. शुद्ध धातुओं की सतह चमकदार होती है।  
B. धातुएँ ऊषा की सुचालक होती हैं।  
C. धातुओं के गलनांक उच्च होते हैं।  
D. सीसा और पारा ऊषा के सबसे अच्छे चालक हैं।

100. \_\_\_\_\_, अरुणाचल प्रदेश की गालो जनजाति का त्योहार, हर साल अप्रैल में मनाया जाता है।

A. डोलजात्रा  
B. अली ऐ लिगांग  
C. मोपिन  
D. मैं सी दम सी फी

### **Solutions**

1. B

Sol. Option B has incorrectly spelt word.

"Hesitate" is the correct spelling of the incorrect word "hesitete". It means to be slow to speak or act because one feels uncertain or nervous.

Meanings of other words:

Dealer: a person whose business is buying and selling a particular object.

Queer: strange or unusual.

Obvious: easy to understand or see.

2. C

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

- Was = singular helping verb used in simple past tense.
- Have = plural helping verb used in present perfect tense.
- Is = singular helping verb used in simple present tense.
- Are = plural helping verb used in simple present tense.

"Is" is used in the "simple present tense". Here in the given sentence, it is used to show the present scenario of banking.

The subject in the given sentence is "banking". It is a singular noun. Thus, we will use a singular verb in the blank.

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

Thus, the correct sentence will be: Today, banking in a seamless world is a distinct reality.

Hence, option C is the correct answer.

3. C

Sol. Stranger: a person that you don't know

Interpreter: a person whose job is to translate what someone is saying into another language.

Interloper: someone who becomes involved in an activity or a social group without being asked, or enters a place without permission.

Foreigner: a person who comes from a different country.

Hence, option C is the correct answer.

4. A

Sol. The idiom "to get on the nerves" means to annoy someone.

Example: Her endless whining really gets on my nerves.

Hence, option A is the correct answer.

5. D

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

- The underlined part needs correction in the preposition and adverb.
- "By" as a preposition is used for showing how or in what way something is done.
- "For" as a preposition is used to show a length of time.

For example:

Ramesh is going away for a few weeks.

- "From" as a preposition is used to show where something starts.
- "Almost" has a similar meaning to "nearly" i.e. not completely
- "Quite" is used to show "some degree".
- For example:

He is quite a good player.

The workforce has almost doubled in the past five years.

- In the underlined sentence, we need a preposition that shows the duration and an adverb that shows meaning similar to "nearly". Thus, it is appropriate to use preposition "for" and adverb "almost".
- Hence, "for almost" is the correct substitution.

Thus, the correct sentence will be:

During the winter months the bears go without food for almost six to seven months.

Hence, option D is the correct answer.

6. D

Sol. Option D has incorrectly spelt word.

“Authority” is the correct spelling of the incorrect word “Outhority”. It means the power to give orders to people.

Meanings of other words:

Edible: fit or suitable to be eaten

Meddle: interfere

Condition: the state that something is in.

7. D

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

Protest = to say something or do something to show that you disagree with something or think it is bad especially publically.

E.g.: The local residents took to the streets to protest against the decision.

Favour = to prefer one system, plan, or way of doing something.

Support = to help or encourage someone/something

Assist = to help someone to do something

Object = to say that you disagree with or oppose something.

E.g.: The investors objected to the proposal at the meeting.

Hence, option D is the correct answer.

8. A

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

- Search = an attempt to find something/someone especially by looking carefully for them/it
- Chase = an act of running or driving after
- Pursuit = the act of looking for or trying to get something.
- Track = a piece of ground with a special surface for people, cars, etc. to have races or to drive on.

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

- "Chase" is used in the context of "running or driving after someone" Thus, option B is incorrect.
- "Pursuit" is used in the context of "looking for something". Thus, option C is incorrect.
- "Track" is used in the context of "surface for driving or races". Thus, option D is incorrect.
- "Search" is used in the context of "finding something carefully". Here in the given sentence, it means the act of finding vaccine may take a year.

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

Thus, the correct sentence will be: The search for a vaccine could take up to a year.

9. B

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

- Are recovering = present continuous form of verb "recover".
- Recover = base form of verb "recover". It means to get well again after being hurt, ill etc.
- Should recover = it is "modal + base form of verb" structure.
- Are recover = it is "helping verb + base form of verb" structure. It is structurally incorrect.

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

- "Are recovering" is used to show the continuous state of something. Thus, option A is incorrect.
- "Should recover" is used to show the necessity in the sentence. Thus, option C is incorrect.
- "Are recover" is grammatically wrong structure of verb. Thus, option D is incorrect.
- "Recover" is the base form of verb. With the verb "hope", we use the base form of the verb. Here in the given sentence, it is used to talk about an event of "recover".  
Thus, "Recover" becomes the correct word to fill in the blank.  
Thus, the correct sentence will be: I hope your parents recover soon.

10. D

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

- Populist = one who believes in or supports populism (type of politics that claims to represent the opinions and wishes of ordinary people)
- Populated = to live in an area and form its population.
- Populous = where a large number of people live.
- Popular = liked or enjoyed by a large number of people OR shared by a large number of people

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

- "Populist" is used particularly in the context of "having support of masses". Thus, option A is incorrect.
- "Populated" is used particularly in the context of "living in an area". Thus, option B is incorrect.
- "Populous" is used particularly in the context of "existence of large people in an area". Thus, option C is incorrect.
- "Popular" is used particularly in the context of "liked or shared by many people". Here in the given sentence, it is used to mention the likeness of tales (of Akbar and Birbal) by large number of people.

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

Thus, the correct sentence will be: Many popular tales evoke the memory of Akbar and Birbal.

11. B

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

- The use of V3 “grown” with the pronoun “you” is erroneous.
- We do not use V3 with the pronoun “you” directly.
- Thus, we will replace the V3 with V1 “grow”.
- Also, it is erroneous to use “full stop” in the end when the sentence is of interrogative type.
- Hence, “when you grow up?” is the correct substitution.

Thus, the correct sentence will be: Have you decided what you want to become when you grow up?

Hence, option B is the correct answer.

12. A

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

- Inversion is applicable when phrases with negative meaning comes in the starting of the sentence. “Seldom” is one such phrase (adverb of time) that carry the negative sense with it.
- Inversion means putting helping verb before the subject.

For example: Seldom did we have any time to ourselves.

- In the given sentence, we have used the helping verb “has” before the subject “discoveries”. But “has” is a singular helping verb which is inappropriate according to the subject verb agreement because the subject is plural. Thus, plural helping verb “have” should be used in place of “has”.
- Hence, “Seldom have the discoveries” is the correct substitution.

Thus, the correct sentence will be: Seldom have the discoveries of the world's greatest discoverers, like Copernicus or Galileo, been forgotten.

Hence, option A is the correct answer.

13. D

Sol. The idiom "by the same token" means for the same reasons.

Example: The punishment for failure will be high. But, by the same token, the rewards for success will be great.

Hence, option D is the correct answer.

14. A

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

Indulgence= an occasion when you allow or do not mind someone's failure or bad behaviour.

E.g.: My inability to do needlework was treated with surprising indulgence by my teacher.

Leniency = the fact of being less strict than expected.

E.g.: He appealed to the judge for leniency.

Attentiveness = the quality of being pleasant to look at or experience

Accuracy = the state of being exact or correct.

Diligence = careful work or great effort

Hence, option A is the correct answer.

15. D

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

Verb.

- In the given sentence, we have the helping verb “are” and the main verb “enjoy”.
- We either use -Ving (present continuous) or V3 (passive) after the helping verb “are”.
- The given sentence is not in the passive voice because the subject is the real doer of action verb “enjoy”.
- In such a case, we are left two choices, i.e. either make the continuous form of main verb after the helping verb (are) i.e. enjoying or remove “are” from the sentence.
- Note: “Do hope” is used for emphatically stating the meaning synonymous to “certainly hope”.
- Hence, “you are enjoying” or “you enjoy” is the correct substitution.

Thus, the correct sentence will be:

We do hope you are enjoying this online course in art and craft.

Or

We do hope you enjoy this online course in art and craft.

16. B

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

Narrow= measuring a short distance from one side to the other, especially in relation to length.

E.g.: There is only a narrow gap between the bed and the wall.

Tight = held or fixed in position securely; difficult to move

Wide = measuring a large distance from one side to the other.

E.g.: She wore a jacket with wide lapels.

Firm = fairly hard

Solid = hard; not in the form of a liquid.

Hence, option B is the correct answer.

17. B

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

Hence, option B is the correct answer.

18. A

Sol. Rehabilitate: the process of helping someone to have a normal, useful life again after they have been very ill or in prison for a long time.

Reinstate: to give back a job or position that had been taken away from someone.

Renovate: to repair and paint an old building, furniture etc. to bring it in good condition again.

Refurbish: to clean and decorate a room, building etc. in order to make attractive, more useful.

Hence, option A is the correct answer.

19. C

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

Sly= acting or done in a secret or dishonest way.

E.g.: He's a sly old devil - I wouldn't trust him with my money.

Thick = having a larger distance between opposite sides or surfaces than other similar objects

Stiff = difficult to bend

Honest = always telling truth and never stealing or cheating

E.g.: Everyone in the office knows that she is an honest woman.

Slow = not moving, acting or done quickly.

Hence, option C is the correct answer.

20. A

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

- The underlined part needs correction in the pronoun.
- “Them” is the objective case of pronoun “they”. It is used when referring to animals, people or things as object of verb/preposition.
- “Those” is the plural form of determiner “that”. It is used for referring a person or a things that is not near the speaker.

For example:

Look at those women over there.

If anyone comes in before we get back, ask them to wait.

- In the underlined sentence, we need a pronoun to refer to “birds” mentioned in the previous sentence so that it can act like an object for verb “feed”. Thus, it is appropriate to use objective case of pronoun “them”.
- Since the sentence is in the present tense, we will use the verb “feed”.
- Hence, “feed them” is the correct substitution.

Thus, the correct sentence will be: There are many birds in the verandah today. Hema, please feed them.

Hence, option A is the correct answer.

21. B

Sol. The given passage is about an event of “Accidental death of a chicken”

“Along” as a preposition is used for showing a line that follows the side of something long. Thus, option A is wrong.

“Over” as a preposition is used to show resting on the surface of something/someone and partly or completely covering them/it. Thus, option C is wrong.

“Aside” as an adverb is used to show “to one side; out of the way”. Thus, option D is wrong.

“Through” as a preposition is used for showing from one end or side of something/someone to the other. Here it is used to show that the magistrate was walking from one end of market to the other end.

Hence, option B is the correct answer.

22. D

Sol. The given passage is about an event of “Accidental death of a chicken”

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

“Whereas” as a conjunction is used to show contrast. Thus, option B is wrong.

“How” as an adverb is used to show “in what way or manner”. Thus, option C is wrong.

“On” as a preposition is used to show “immediately after something”. Here it is used to show that after enquiring about why there was so much crowd outside a poultry shop, the magistrate got the real reason.

Hence, option D is the correct answer.

23. D

Sol. The given passage is about an event of “Accidental death of a chicken”

“Him” is an objective form of pronoun “He”. Thus, option A is wrong.

“She” is the third person singular pronoun (subjective case). It is used to refer the nouns with feminine gender. Thus, option B is wrong.

“They” is the third person plural pronoun (subjective case). Thus, option C is wrong.

“He” is the third person singular pronoun (subjective case). It is used for nouns with masculine gender. Here it refers to masculine gender noun i.e. “magistrate”.

Hence, option D is the correct answer.

24. A

Sol. The given passage is about “Accidental death of a chicken”.

“Filled” means to make something full of something. Thus, option B is wrong.

“Selected” means carefully chosen as the best out of a larger group of people or things. Thus, option C is wrong.

“Picked” means to choose someone/something from a group of people/things. Thus, option D is wrong.

“Dropped” means to allow something to fall by accident. Here it is used to show that a sack (heavy weight) fell, by accident, on a chicken and it eventually led to the death of chicken.

Hence, option A is the correct answer.

25. B

Sol. The given passage is about “Accidental death of a chicken”.

“Creeping” means to move slowly, quietly and carefully. Thus, option A is wrong.

“Covering” means a layer of something that covers something else. Thus, option C is wrong.

“Crumbling” means to break or break something into very small pieces. Thus, option D is wrong.

“Crushing” means to press something hard that it is damaged or injured. Here it is used to show that the heavy sack that accidentally fell on chicken, hit the chicken so hard that it eventually led to the death.

Hence, option B is the correct answer.

26. B

Sol. चूंकि,

दर्जी का काम कपड़े सिलना है।

इसी प्रकार,

पेंटर का काम पेटिंग करना है।

इसलिए, विकल्प B सही उत्तर है।

27. B

Sol. माना अभ्य प्रतिदिन 2 आम खाता है।

60 दिनों में, अभ्य कुल 120 आम खाता है।

तो, कुल आम =120

अभय का कजिन राजीव उसके साथ छुटियां बिताने आया था और दोनों ने 36 दिनों में आम खत्म कर दिए।

36 दिनों में, अभय खाता है = $36 \times 2 = 72$  आम

तो, 36 दिनों में, राजीव खाता है = $120 - 72 = 48$  आम

तो, राजीव अकेले 120 आम खाता है = $(36/48) \times 120$

=90 दिन

इसलिए, विकल्प B सही उत्तर है।

28. B

Sol. दी गई श्रृंखला में दो श्रृंखलाएं हैं।

श्रृंखला 1:

128, 126, 124

पैटर्न-

$128 - 2 = 126$

$126 - 2 = 124$

श्रृंखला 2:

116, 118, ?

पैटर्न-

$116 + 2 = 118$

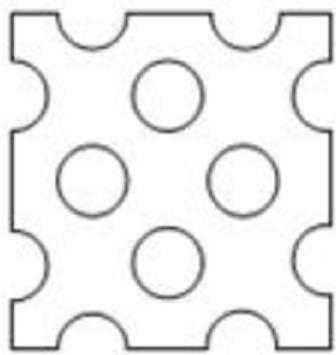
$118 + 2 = 120$

तो, ? = 120

इसलिए, विकल्प B सही उत्तर है।

29. C

Sol. जैसा कि आकृति में दिया गया है, हमें इसे दिए गए (बुक फोल्डिंग) तरीके से मोड़ने की जरूरत है और इसे खोले जाने पर विकल्प C दिखाई देगा।



इसलिए, विकल्प C सही उत्तर है।

30. A

Sol. जैसाकि,

$$F(6) + E(5) + V(22) + E(5) + R(18) + I(9) + S(19) + H(8) = 92, \text{ reverse} = 29$$

$$C(3) + O(15) + U(21) + N(14) + S(19) + E(5) + L(12) = 89, \text{ reverse} = 98$$

इसी प्रकार,

$$M(13) + U(21) + T(20) + A(1) + T(20) + E(5) + D(4) = 84, \text{ reverse} = 48$$

इसलिए, विकल्प A सही उत्तर है।

31. C

Sol. जैसाकि,

$$\sqrt{144}(\sqrt{144}+2)=12(12+2)=12*14=168$$

इसी प्रकार,

$$\sqrt{121}(\sqrt{121}+2)=11(11+2)=11*13=143$$

इसलिए, विकल्प C सही उत्तर है।

32. B

Sol. जैसाकि,

खलनायक और नायक विलोम शब्द हैं।

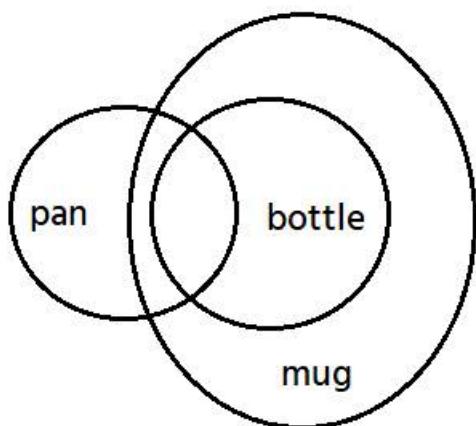
इसी प्रकार,

शैतान और देवदूत विलोम शब्द हैं।

इसलिए, विकल्प B सही उत्तर है।

33. C

Sol. न्यूनतम संभावित वेन आरेख है -



निष्कर्षः

I. सभी मग, बोतल हैं। (यह अनुसरण नहीं करता है क्योंकि यह केवल एक संभावना है, निश्चितता नहीं है।)

II. कुछ मग, पैन हैं। (यह अनुसरण करता है क्योंकि कुछ पैन, बोतल हैं और सभी बोतल, मग हैं।)

तो, केवल निष्कर्ष II अनुसरण करता है।

इसलिए, विकल्प C सही उत्तर है।

34. A

Sol. एक विद्यालय की प्रातःकालीन प्रार्थना में चंचल आगे से 8वें स्थान पर थी, जबकि उसी पंक्ति में प्रिंस पीछे से 11वें स्थान पर था।

यदि वे अपना स्थान बदल लेते हैं, तो चंचल आगे से 22वें और प्रिंस आगे से 8वें स्थान पर आ जाते हैं।

पंक्ति में छातरों की कुल संख्या =  $(22+11)-1=33-1=32$

इसलिए, विकल्प A सही उत्तर है।

35. C

Sol. पैटर्न इस प्रकार है:

$$V \xrightarrow{-3} S \xrightarrow{-3} P$$

$$N \xrightarrow{-3} K \xrightarrow{-3} H$$

$$F \xrightarrow{-3} C \xrightarrow{-3} Z$$

$$X \xrightarrow{-3} U \xrightarrow{-3} R$$

इसलिए, विकल्प C सही उत्तर है।

36. C

Sol. जैसाकि,

$$(4+3)*5=7*5=35$$

इसी प्रकार,

$$(7+12)*5=19*5=95$$

इसलिए, विकल्प C सही उत्तर है।

37. C

Sol. तर्क: अक्षरों को उल्टे क्रम में व्यवस्थित किया जाता है।

जैसाकि,

GLOWING = GGILNOW

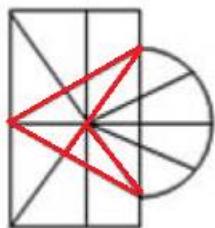
इसी प्रकार,

OBVIOUS = BIOOSUV

इसलिए, विकल्प C सही उत्तर है।

38. B

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



इसलिए, विकल्प B सही उत्तर है।

39. A

Sol. जैसाकि,

#### PETITION

$$= P(16)E(5)T(20)I(9)T(20)I(9)O(15)N(14)$$

$$= P(1+6)E(5)T(2+0)I(9)T(2+0)I(9)O(1+5)N(1+4)$$

$$= P(7)E(5)T(2)I(9)T(2)I(9)O(6)N(5)$$

$$= 75292965$$

और

#### GERMINATE

$$= G(7)E(5)R(18)M(13)I(9)N(14)A(1)T(20)E(5)$$

$$= G(7)E(5)R(1+8)M(1+3)I(9)N(1+4)A(1)T(2+0)E(5)$$

$$= G(7)E(5)R(9)M(4)I(9)N(5)A(1)T(2)E(5)$$

$$= 759495125$$

इसी प्रकार,

**COMPLEX**

$$= C(3)O(15)M(13)P(16)L(12)E(5)X(24)$$

$$= C(3)O(1+5)M(1+3)P(1+6)L(1+2)E(5)X(2+4)$$

$$= C(3)O(6)M(4)P(7)L(3)E(5)X(6)$$

$$= 3647356$$

इसलिए, विकल्प A सही उत्तर है।

40. D

Sol. तर्कः अक्षरों को उल्टे क्रम में व्यवस्थित किया जाता है।

जैसाकि,

$$\text{FLUIDITY} = \text{YUTLIIFD}$$

इसी प्रकार,

$$\text{IMPROVISE} = \text{VSRPOMIIIE}$$

इसलिए, विकल्प D सही उत्तर है।

41. A

Sol. विकल्प A की जांच करने पर:

$$87 \times 2 - 65 + 182 \div 38 = 155$$

परस्पर बदलाव के बाद:

$$27 \times 8 - 65 + 128 \div 32 = 155$$

$$\text{या, } 216 - 65 + 4 = 155$$

$$\text{या, } 220 - 65 = 155$$

या,  $155=155$

तो, यह सही विकल्प है

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

इसलिए, विकल्प A सही उत्तर है।

42. C

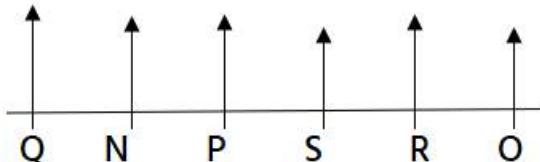
Sol. O अंत में दाईं ओर है, जबकि R उसकी ठीक बाईं ओर है।

\_\_\_\_\_ R O \_\_\_\_\_ (1)

P, N और S के ठीक बीच में खड़ा है, जबकि Q, N की ठीक बाईं ओर है।

Q N P S \_\_\_\_\_ (2)

(1) और (2) से,



अतः, R, S की ठीक दाईं ओर है।

इसलिए, विकल्प C सही उत्तर है।

43. A

Sol. पैटर्न इस प्रकार है:

$6+5=11$

$11+7=18$

$18+9=27$

$27+11=38$

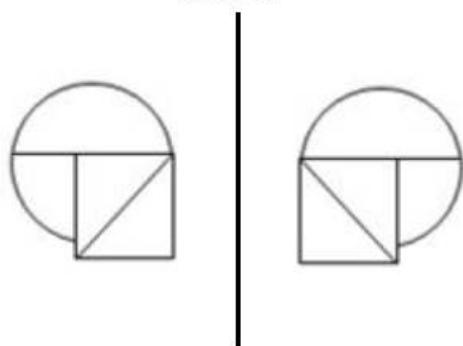
$$38+13=51$$

इसलिए, विकल्प A सही उत्तर है।

44. A

Sol. एक समतल दर्पण में, एक दर्पण छवि एक वस्तु का प्रावर्तित प्रतिबिम्ब होती है जो लगभग समान दिखाई देती है, लेकिन यह दर्पण की सतह की लंबवत दिशा में उलटी होती है। एक ऑप्टिकल प्रभाव के रूप में यह दर्पण या पानी जैसे पदार्थों के प्रतिबिम्ब के परिणामस्वरूप उत्पन्न होती है।

Mirror

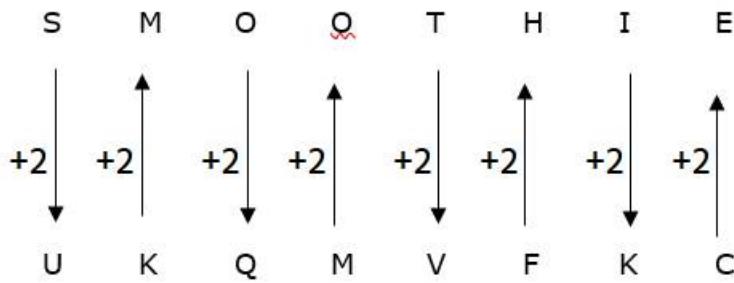


इसलिए, विकल्प A सही उत्तर है।

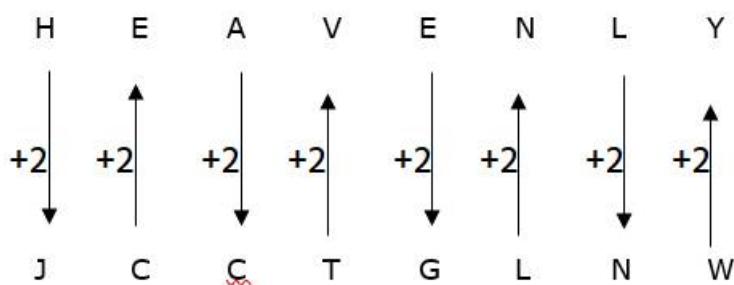
45. D

Sol.

as,



similarly,



इसलिए, विकल्प D सही उत्तर है।

46. C

Sol. विकल्प A की जांच करने पर:

$$46 * 72 * 18 * 27 * 135 = 19$$

परस्पर बदलाव के बाद:

$$46 - 72 \times 18 \div 27 + 135 = 19$$

यहाँ, 18, 27 से पूर्णतः विभाज्य नहीं है, इसलिए इसका परिणाम दशमलव में होगा।

अतः, यह सही विकल्प नहीं है।

विकल्प B की जांच करने पर:

$$46 * 72 * 18 * 27 * 135 = 19$$

परस्पर बदलाव के बाद:

$$46 \times 72 \div 18 - 27 + 135 = 19$$

या,  $46 \times 4 - 27 + 135 = 19$

या,  $184 - 27 + 135 = 19$

या,  $292 = 19$

अतः, यह सही विकल्प नहीं है।

विकल्प C की जांच करने पर:

$46 * 72 * 18 * 27 * 135 = 19$

परस्पर बदलाव के बाद:

$46 + 72 \div 18 \times 27 - 135 = 19$

या,  $4 \times 27 - 89 = 19$

या,  $108 - 89 = 19$

या,  $19=19$

अतः, यह सही विकल्प है।

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

इसलिए, विकल्प C सही उत्तर है।

47. B

Sol.



पैटर्न:

अर्ध-पारदर्शी अनुभाग का स्थानांतरण क्रम: 1, 2, 3, 1

सफेद पारदर्शी अनुभाग का स्थानांतरण क्रम: 2, 3, 1, 2

काले अनुभाग का स्थानांतरण क्रम: 3, 1, 2, 3

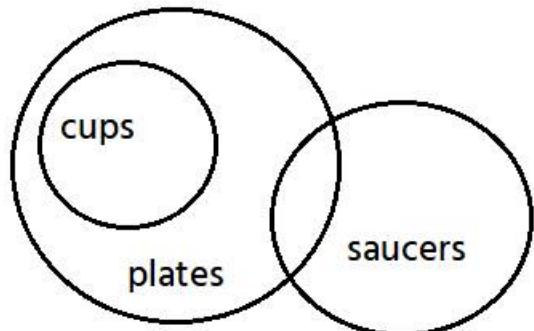
अतः, अगली आकृति है-



इसलिए, विकल्प B सही उत्तर है।

48. C

Sol. न्यूनतम संभावित आरेख है -



निष्कर्ष:

I. सभी प्लेट, कप हैं। (यह अनुसरण नहीं करता है क्योंकि यह केवल एक संभावना है, निश्चितता नहीं है।)

II. कुछ कप, सॉसर हैं। (यह भी अनुसरण नहीं करता है क्योंकि यह केवल एक संभावना है, निश्चितता नहीं है।)

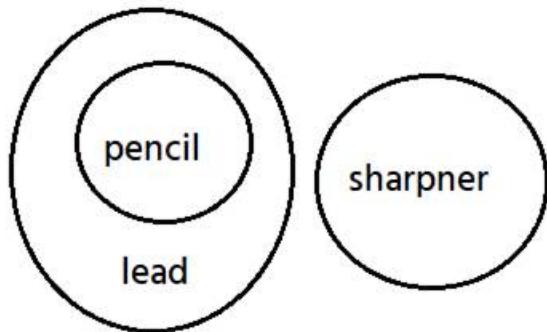
अतः, न तो निष्कर्ष | न ही || अनुसरण करता है।

इसलिए, विकल्प C सही उत्तर है।

49. D

Sol. पेंसिल सीसे की बनी होती है। शार्पनर भिन्न है।

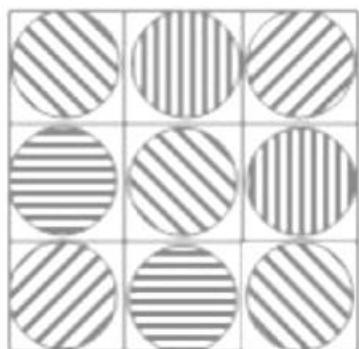
अतः, सबसे अच्छा प्रतिनिधित्व है:



इसलिए, विकल्प D सही उत्तर है।

50. A

Sol. पूर्ण आकृति है:



इसलिए, विकल्प A सही उत्तर है।

51. C

Sol.  $\frac{x^2}{y^2} = \frac{16}{81}$

$$\Rightarrow \frac{x}{y} = \sqrt{\frac{16}{81}} = \frac{4}{9}$$

माना  $x = 4k$

चूँकि  $x$  और  $y$  दो संख्याएँ हैं जिनके विपरीत चिह्न हैं,

तो  $y = -9k$

$$\Rightarrow \frac{3x+4y}{2x-3y} = \frac{3(4k)+4(-9k)}{2(4k)-3(-9k)} = \frac{12k-36k}{8k+27k} = \frac{-24k}{35k} = -\left(\frac{24}{35}\right)$$

52. A

Sol.  $\frac{1}{11} \div \left\{ \left[ \frac{11}{80} \div \frac{3}{4} \left( \frac{1}{4} - \frac{1}{3} \times \frac{1}{5} \right) \div 1 \frac{5}{6} \right] + \frac{9}{11} \right\}$   
 $\Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{11}{80} \div \frac{3}{4} \left( \frac{1}{4} - \frac{1}{3} \times \frac{1}{5} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\}$

बोडमास का उपयोग करके:

$$\begin{aligned} &\Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{11}{80} \div \frac{3}{4} \left( \frac{1}{4} - \frac{1}{15} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\} \\ &\Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{11}{80} \div \frac{3}{4} \left( \frac{15-4}{60} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\} \\ &\Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{11}{80} \div \frac{3}{4} \left( \frac{11}{60} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\} \\ &\Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{11}{80} \div \left( \frac{33}{240} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\} \\ &\Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{11}{80} \times \left( \frac{240}{33} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\} \\ &\Rightarrow \frac{15}{11} \div \left\{ \left[ 1 \div \left( \frac{11}{6} \right) \right] + \frac{9}{11} \right\} \\ &\Rightarrow \frac{15}{11} \div \left\{ \left[ \frac{6}{11} \right] + \frac{9}{11} \right\} \\ &\Rightarrow \frac{15}{11} \div \left\{ \frac{15}{11} \right\} = 1 \end{aligned}$$

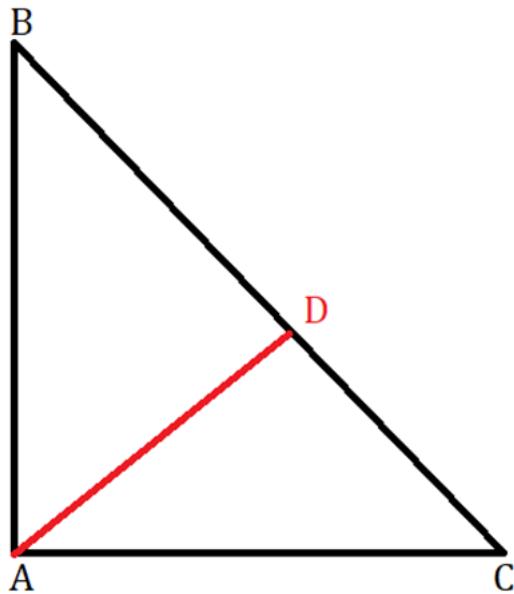
53. B

Sol. एक  $\triangle ABC$ ,  $\angle BAC = 90^\circ$  में, AD, A से BC पर लंबवत खींचा गया है।

माना  $AB = 4$  सेमी

$AC = 3$  सेमी

एक  $\triangle ABC$ ,  $\angle BAC = 90^\circ$



$$BC = \sqrt{(4)^2 + (3)^2} = \sqrt{16 + 9} = 5 \text{ cm}$$

चूँकि  $AD$ ,  $BC$  पर लंबवत है:

$$\text{इसलिए, } \frac{CD}{DB} = \frac{(AC)^2}{(AB)^2} = \frac{(3)^2}{(4)^2} = \frac{9}{16}$$

$$\text{अतः, } CD = \frac{9}{25} \times 5 = \frac{9}{5} \text{ cm}$$

$$DB = \frac{16}{25} \times 5 = \frac{16}{5} \text{ cm}$$

$$BD \text{ और } BC \text{ के बीच माध्य आनुपातिक} = \sqrt{BD \times BC} = \sqrt{\frac{16}{5} \times 5} = 4 \text{ cm} = AB$$

54. C

Sol. दो बर्तनों में दूध और पानी का मिश्रण क्रमशः 3:2 और 6:5 के अनुपात में है।

पहले बर्तन की  $x$  इकाई को दूसरे बर्तन की  $y$  इकाई के साथ मिलाएं।

दूध की मात्रा संतुलित करें:

$$\Rightarrow \frac{3}{5}x + \frac{6}{11}y = \frac{4}{7}(x + y)$$

$$\Rightarrow \frac{3}{5}x - \frac{4}{7}x = \frac{4}{7}y - \frac{6}{11}y$$

$$\Rightarrow \frac{21x - 20x}{35} = \frac{44y - 42y}{77}$$

$$\Rightarrow \frac{x}{35} = \frac{2y}{77}$$

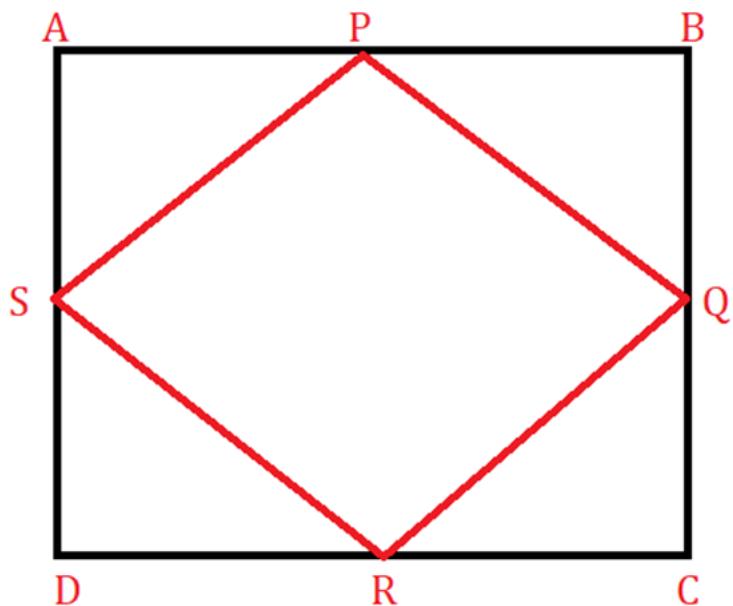
$$\Rightarrow \frac{x}{y} = \frac{70}{77} = \frac{10}{11}$$

इसलिए, सामग्री को 10:11 के अनुपात में मिलाया जाना चाहिए ताकि अंतिम मिश्रण में दूध और पानी का अनुपात 4:3 हो।

55. B

Sol. मान लीजिए एक वर्ग की भुजा जिसका क्षेत्रफल  $S = x$  इकाई है

इसलिये,  $S = x^2$  unit<sup>2</sup>



स्पष्ट रूप से,  $AB = BC = CD = DA = x$  इकाई

साथ ही, P, Q, R और S क्रमशः भुजा AB, BC, CD और DA के मध्यबिंदु हैं।

$$PB = BQ = QC = RC = RD = SD = AS = AP = \frac{x}{2}$$

चूँकि ABCD एक वर्ग है इसलिए  $\angle PBQ = \angle PAS = \angle SDR = \angle RCQ = 90^\circ$

अतः समकोण त्रिभुज PBQ में,

$$\Rightarrow PQ^2 = PB^2 + QB^2$$

$$\Rightarrow PQ = \sqrt{\left(\frac{x}{2}\right)^2 + \left(\frac{x}{2}\right)^2} = \sqrt{\frac{x^2}{4} + \frac{x^2}{4}} = \frac{x}{\sqrt{2}} \text{ unit}$$

क्षेत्रफल A वाले वर्ग की भुजा  $= \frac{x}{\sqrt{2}}$  unit

$$A = \left(\frac{x}{\sqrt{2}}\right)^2 = \frac{x^2}{2} \text{ unit}^2$$

$$\frac{A}{S} \text{ का मान} = \frac{\frac{x^2}{2}}{x^2} = \frac{1}{2} = 0.5$$

56. A

Sol. विचार करें: 34, 22, 13, 11, 27, 19, 25, 16

डेटा को आरोही रूप में व्यवस्थित करें: 11, 13, 16, 19, 22, 25, 27, 34

पदों की संख्या = 8

$$\text{चूँकि पदों की संख्या सम होती है इसलिए माध्यिका} = \frac{\left(\frac{n}{2}\right)^{\text{th}} \text{ term} + \left(\frac{n}{2}+1\right)^{\text{th}} \text{ term}}{2}$$

$$\text{अब } \left(\frac{n}{2}\right)^{\text{th}} \text{ पद} = \text{चौथा पद} = 19$$

$$\left(\frac{n}{2} + 1\right)^{\text{th}} \text{ पद} = 5\text{वाँ पद} = 22$$

$$\text{अतः माध्यिका} = \frac{19+22}{2} = \frac{41}{2} = 20.5$$

57. C

Sol. तूफान के दौरान हवा की गति  $= 10^5$  मिमी प्रति सेकंड।

दूरी = 1 किमी

$$\text{अपेक्षित समय} = \frac{\text{Distance}}{\text{Speed}} = \frac{1 \text{ km}}{\frac{10^5}{1000 \times 1000} \text{ km/sec}} = 10 \text{ sec}$$

58. C

Sol. दो मिट्र, जिनमें से एक दूसरे की तुलना में तीन गुना कुशल है, एक साथ कार्य करते हुए, एक कार्य को 6 दिनों में पूरा कर सकते हैं।

माना कम कुशल मिट्र की क्षमता = 1 इकाई/दिन

अधिक कुशल मिट्र की क्षमता = 3 इकाई/दिन

$$\text{माना कुल कार्य} = 6 \times (1 + 3) = 24 \text{ unit}$$

$$\text{दोनों में से कम कुशल के लिए आवश्यक दिनों की संख्या, कार्य की मात्रा का दोगुना पूरा करने में सक्षम है} = \frac{2 \times 24}{1} = 48 \text{ days}$$

59. B

Sol. कुछ संकट के कारण राज्य A से कुछ लोग राज्य B में चले गए, और इस तरह दूसरे राज्य की जनसंख्या में 19.96% की वृद्धि हुई।

$$\Rightarrow 19.96\% = \frac{1996}{10000}$$

माना राज्य A की जनसंख्या = 10000

$$\text{अतः स्थानांतरण के बाद राज्य B की जनसंख्या} = 10000 + 10000 \times \frac{1996}{10000} = 11996$$

हालांकि, बाद के चरण में, वे सभी राज्य A में लौट आए।

अतः राज्य B की जनसंख्या के प्रतिशत में कमी =

$$\frac{(11996 - 10000)}{11996} \times 100 = \frac{(1996)}{11996} \times 100 = 16.64\%$$

60. B

Sol. एक खुदरा विक्रेता सप्ताह के सभी सातों दिन अपना आउटलेट खोलता है। यह देखा गया है कि शनिवार और रविवार को मिलाकर उसकी औसत बिक्री 300 रुपये और शेष पांच दिनों के लिए 200 रुपये है।

शनिवार से शुरू होने वाले एक सप्ताह के लिए खुदरा विक्रेता की बिक्री =

$$2 \times (300) + 5 \times (200) = 600 + 1000 = \text{Rs. } 1600$$

शनिवार से शुरू होने वाले 4 सप्ताह के लिए खुदरा विक्रेता की बिक्री =  $4 \times \text{Rs. } 1600 = \text{Rs. } 6400$

शनिवार और रविवार के लिए खुदरा विक्रेता की बिक्री =  $2 \times (300) = \text{Rs. } 600$

4 सप्ताह + शनिवार और रविवार में कुल बिक्री =  $6400 + 600 = 7000$  रुपये

4 सप्ताह + शनिवार और रविवार में दिनों की कुल संख्या =  $28 + 1 + 1 = 30$

इसलिए, अप्रैल आवश्यक महीना है।

61. B

Sol. अर्थव्यवस्था के छात्रों की संख्या = 96

मनोविज्ञान के छात्रों की संख्या = 84

इतिहास के छात्रों की संख्या = 160

राजनीति विज्ञान के छात्रों की संख्या = 120

समाजशास्त्र के छात्रों की संख्या = 125

2013 में, समाजशास्त्र के 20% छात्र, राजनीति विज्ञान के 25% छात्र और अर्थशास्त्र के एक-छठे छात्र दूसरे कॉलेज में स्थानांतरित हो गए, और इतिहास के छात्रों की संख्या अन्य कॉलेजों से स्थानांतरित होने के कारण 10% बढ़ गई।

अर्थव्यवस्था के छात्रों की शेष संख्या =  $96 - 96 \times \frac{1}{6} = 96 - 16 = 80$

शेष राजनीति विज्ञान के छात्रों संख्या =  $120 - 120 \times \frac{25}{100} = 120 - 30 = 90$

शेष समाजशास्त्र के छात्रों की संख्या =  $125 - 125 \times \frac{20}{100} = 125 - 25 = 100$

इतिहास के छात्रों की नई संख्या =  $160 + 160 \times \frac{10}{100} = 160 + 16 = 176$

इसके अलावा शेष समाजशास्त्र के 10% छात्र और मनोविज्ञान के एक-सातवें छात्र अर्थशास्त्र में स्थानांतरित हो गए।

शेष समाजशास्त्र के छात्रों का 10% =  $100 \times \frac{10}{100} = 10$

शेष समाजशास्त्र के छात्रों की संख्या =  $100 - 10 = 90$

$$\text{मनोविज्ञान के विद्यार्थियों का एक-सातवाँ भाग} = \frac{1}{7} \times 84 = 12$$

$$\text{मनोविज्ञान के छात्रों की शेष संख्या} = 84 - 12 = 72$$

$$\text{अर्थव्यवस्था के छात्रों की परिणामी संख्या} = 80 + 10 + 12 = 102$$

$$2013 \text{ के पाई चार्ट में इतिहास के अनुरूप त्रिज्यखंड का केंद्रीय कोण (\text{निकटतम अंश तक}) = \frac{176}{102+72+176+90+90} \times 360^\circ = \frac{176}{530} \times 360^\circ = 119.54^\circ \approx 120^\circ$$

62. C

Sol. एक वस्तु का अंकित मूल्य 400 रुपये है। एक दुकानदार इसे इसके अंकित मूल्य पर 12% और 20% की दो क्रमिक छूट देकर बेचता है।

$$\text{वस्तु का विक्रय मूल्य} = 400 \times \frac{(100-12)}{100} \times \frac{(100-20)}{100} = 400 \times \frac{88}{100} \times \frac{80}{100} = \text{Rs. } 281.6$$

$$\text{लाभ} = 10\%$$

$$\text{वस्तु का क्रय मूल्य} = 281.6 \times \frac{(100)}{(100+10)} = 281.6 \times \frac{100}{110} = \text{Rs. } 256$$

63. A

Sol. 5 से शुरू होने वाली लगातार दस विषम संख्याओं पर विचार करें।

$$5, 7, 9, 11, 13, 15, 17, 19, 21, 23$$

पहले और दूसरे को छोड़कर उनमें से प्रत्येक को तीन से गुणा करें:

$$5, 7, 27, 33, 39, 45, 51, 57, 63, 69$$

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

इस प्रकार बनने वाली दस संख्याओं का औसत =

$$\frac{5 + 7 + 27 + 33 + 39 + 45 + 51 + 57 + 63 + 69}{10} = \frac{396}{10} = 39.6$$

64. C

Sol. एक लंब वृत्तीय शंकु के आकार का एक पात्र जिसकी त्रिज्या और गहराई बराबर है, 128000 गोलाकार बूँदों से पूरी तरह से भर जाता है, प्रत्येक व्यास 2 मिमी है।

माना लम्ब वृत्तीय शंकु की तिरज्या = r सेमी

लम्ब वृत्तीय शंकु की ऊँचाई = r सेमी

गोलाकार बूँदों का व्यास = 2 मिमी

गोलाकार बूँदों की तिरज्या = 1 मिमी

लम्ब वृत्तीय शंकु का आयतन =  $128000 \times$  गोलाकार बूँदों का आयतन

$$\Rightarrow \frac{1}{3}\pi \times r^3 = 128000 \times \frac{4}{3}\pi \times \left(\frac{1}{10}\right)^3$$

$$\Rightarrow r^3 = 512$$

$$\Rightarrow r = 8 \text{ cm}$$

अतः पातर की तिरज्या (सेमी में) = 8 सेमी

65. D

Sol. C खेल खेलने वाले खिलाड़ियों की संख्या = 162

पाई चार्ट से,

$$\Rightarrow 54^\circ = 162$$

$$\Rightarrow 1^\circ = 3$$

खेल A और E खेलने वाले खिलाड़ियों की संख्या के बीच अंतर =

$$90^\circ - 72^\circ = 18^\circ = (18 \times 3) = 54 \text{ खिलाड़ी}$$

66. C

Sol. एक वस्तु को 1,232 रुपये में बेचने पर मुझे 124% का लाभ होता है।

$$\text{वस्तु का क्रय मूल्य} = 1232 \times \frac{100}{(100+124)} = 1232 \times \frac{100}{(224)} = \text{Rs.} 550$$

यदि मैं इसे 572 रुपये में बेचता हूँ तो लाभ = 572 रुपये - 550 रुपये = 22 रुपये

$$\text{लाभ \%} = 22 \times \frac{100}{(550)} = 4\%$$

67. A

Sol. दो पुरुष A और B, प्रत्येक अकेले 12 घंटे प्रतिदिन कार्य करके एक कार्य को 20 दिनों में पूरा कर सकते हैं।

$$\text{माना कुल कार्य} = 12 \times 20 = 240 \text{ unit}$$

$$A \text{ की क्षमता} = \frac{240}{20 \times 12} = 1 \text{ unit/hour}$$

$$B \text{ की क्षमता} = \frac{240}{20 \times 12} = 1 \text{ unit/hour}$$

कार्य के निष्पादन के लिए यह निर्णय लिया गया कि A और B, A से शुरू होने वाले वैकल्पिक दिनों में क्रमशः 8 और 6 घंटे प्रतिदिन काम करेंगे।

$$\text{पहले दिन } A \text{ द्वारा किया गया कार्य} = 1 \times 8 = 8 \text{ unit}$$

$$\text{दूसरे दिन } B \text{ द्वारा किया गया कार्य} = 1 \times 6 = 6 \text{ unit}$$

और यह सिलसिला काम पूरा होने तक चलता रहेगा।

$$\text{पहले 2 दिनों में समाप्त कार्य} = 8 + 6 = 14 \text{ इकाई}$$

$$\text{पहले 34 दिनों में पूरा किया गया कार्य} = 8 + 6 = 17 \times 14 = 238 \text{ unit}$$

$$\text{शेष कार्य} = 240 \text{ इकाई} - 238 \text{ इकाई} = 2 \text{ इकाई}$$

इसलिए 2 इकाई का यह शेष कार्य 35वें दिन A द्वारा 2 घंटे में पूरा किया जाएगा क्योंकि A की दक्षता 1 इकाई/घंटा है।

अतः कार्य 34 दिन और 2 घंटे में पूरा हो जाएगा।

$$\Rightarrow x = 34 \text{ और } y = 2$$

68. C

$$\text{Sol. } \frac{\left(3 + \frac{3}{2} \div 6 \frac{1}{2} \times \frac{1}{3}\right) \text{ of } 4 \frac{1}{3}}{\left(-\frac{8}{3} \div 2\right)}$$

बोडमास का उपयोग करके :

$$\Rightarrow \frac{\left(3 + \frac{3}{2} \div \frac{13}{2} \times \frac{1}{3}\right) \text{ of } \frac{13}{3}}{\left(-\frac{8}{3} \div 2\right)}$$

$$\Rightarrow \frac{\left(3 + \frac{3}{2} \times \frac{2}{13} \times \frac{1}{3}\right) \text{ of } \frac{13}{3}}{\left(-\frac{8}{3} \times \frac{1}{2}\right)}$$

$$\Rightarrow \frac{\left(3 + \frac{3}{13} \times \frac{1}{3}\right) \text{ of } \frac{13}{3}}{\left(-\frac{4}{3}\right)}$$

$$\Rightarrow \frac{\left(3 + \frac{1}{13}\right) \times \frac{13}{3}}{\left(-\frac{4}{3}\right)}$$

$$\Rightarrow \frac{\left(\frac{40}{13}\right) \times \frac{13}{3}}{\left(-\frac{4}{3}\right)} = \frac{\frac{40}{3}}{\left(-\frac{4}{3}\right)} = -10$$

69. C

Sol. पृथ्वी को अपनी धुरी पर  $360^\circ$  चक्कर लगाने में लगा समय = 24 घंटे

पृथ्वी को अपनी धुरी पर  $135^\circ$  चक्कर लगाने में लगा समय =

$$\left(\frac{24}{360} \times 135\right) = 9 \text{ hour} = 9 \times 60 \times 60 = 32400 \text{ second}$$

70. B

Sol. एक फल विक्रेता बाजार में 1092 सेब और 3432 संतरे लाता है। वह उन्हें समान संख्या में संतरे और सेब के ढेर में इस तरह व्यवस्थित करता है कि प्रत्येक ढेर में फलों की अधिकतम संभव संख्या हो।

अपेक्षित संख्या = HCF (1092, 3432)

$$1092 = 2 \times 2 \times 3 \times 7 \times 13$$

$$3432 = 2 \times 2 \times 2 \times 3 \times 11 \times 13$$

$$\text{HCF}(1092, 3432) = 2 \times 2 \times 3 \times 13 = 156$$

इसलिए, प्रत्येक ढेर में 156 फल होते हैं।

71. C

Sol. एक विक्रेता, किसी वस्तु की बिक्री को बढ़ावा देने की दृष्टि से साधारण ब्याज के सिद्धांत को लागू करता है। वह घोषणा करता है कि नकद

भुगतान के बदले वस्तु के 300 टुकड़े तुरंत प्राप्त किए जा सकते हैं लेकिन एक ग्राहक को वस्तु के केवल 200 टुकड़े मिलेंगे यदि वह एक वर्ष के लिए भुगतान को स्थगित करता है।

माना एक वस्तु का मूल्य =  $x$

वस्तु के 300 टुकड़ों का मूल्य =  $300x$

वस्तु के 200 टुकड़ों का मूल्य =  $200x$

1 वर्ष का साधारण ब्याज =  $300x - 200x = 100x$

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

$$\Rightarrow 100x = \frac{200x \times R \times 1}{100}$$

$$\Rightarrow R = 50\%$$

अतः ब्याज दर = 50%

72. D

Sol. ब्याज की वार्षिक चक्रवृद्धि के आधार पर निवेश की गई 6,400 रुपये की राशि दो वर्षों में बढ़कर 7,056 रुपये हो जाती है।

मूलधन = 6400 रुपये

राशि = 7056 रुपये

समय = 2 वर्ष

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

$$\Rightarrow 7056 = 6400 \left(1 + \frac{R}{100}\right)^2$$

$$\Rightarrow \frac{7056}{6400} = \left(1 + \frac{R}{100}\right)^2$$

$$\Rightarrow \left(1 + \frac{R}{100}\right)^2 = \frac{441}{400}$$

$$\Rightarrow \left(1 + \frac{R}{100}\right) = \sqrt{\frac{441}{400}} = \frac{21}{20}$$

$$\Rightarrow \frac{R}{100} = \frac{1}{20}$$

$$\Rightarrow R = 5\%$$

ब्याज दर = 5%

73. C

Sol. एक ठोस लम्ब वृत्तीय बेलन का कुल पृष्ठीय क्षेत्रफल = 1617 सेमी<sup>2</sup>

इसके आधार का व्यास = 21 सेमी

इसके आधार की तिरज्या =  $\left(\frac{21}{2}\right)$  सेमी

$$\Rightarrow 2\pi r(r + h) = 1617$$

$$\Rightarrow 2 \times \frac{22}{7} \times \frac{21}{2} \left(\frac{21}{2} + h\right) = 1617$$

$$\Rightarrow \left(\frac{21}{2} + h\right) = \frac{1617}{66} = 24.5$$

$$\Rightarrow h = 24.5 - 10.5 = 14 \text{ cm}$$

ठोस लम्ब वृत्तीय बेलन की ऊँचाई = 14 सेमी

ठोस लम्ब वृत्तीय बेलन का आयतन =  $\pi r^2 h = \frac{22}{7} \times \frac{21}{2} \times \frac{21}{2} \times 14 = 4851 \text{ cm}^3$

74. D

Sol. एक वस्तु के निर्माण की लागत 24,000 रुपये थी, और इसका 20% पैकेजिंग और एक खुदरा विक्रेता को इसकी शिपमेंट पर खर्च किया गया।

वस्तु का शुद्ध लागत मूल्य =  $24000 + 24000 \times \frac{20}{100} = 24000 + 4800 = \text{Rs. } 28800$

निर्माता ने 50% का लाभ कमाया।

निर्माता के लिए वस्तु का विक्रय मूल्य =

$$28800 + 28800 \times \frac{50}{100} = 28800 + 14400 = \text{Rs. } 43200$$

खुदरा विक्रेता के लिए वस्तु का क्रय मूल्य = 43200 रुपये

जबकि खुदरा विक्रेता को इसे ग्राहक को बेचने में 20% की हानि हुई।

$$\text{खुदरा विक्रेता के लिए वस्तु का विक्रय मूल्य} = 43200 - 43200 \times \frac{20}{100} = 43200 - 8640 = \text{Rs. } 34560$$

75. C

Sol. अर्थशास्त्र और मनोविज्ञान में छात्रों की कुल संख्या = 96 + 84 = 180

इतिहास, राजनीति विज्ञान और समाजशास्त्र में छात्रों की कुल संख्या = 160 + 120 + 125 = 405

$$\text{अपेक्षित प्रतिशत} = \frac{180}{405} \times 100 = 44.44\%$$

76. A

Sol. • प्लासी की लड़ाई के बाद मीर जाफर को बंगाल का नवाब बनाया गया था।

• प्लासी की लड़ाई 23 जून 1757 को बंगाल के नवाब और उनके फ्रांसीसी सहयोगियों पर ब्रिटिश ईस्ट इंडिया कंपनी की निर्णायक जीत थी।

• इसने कंपनी को बंगाल पर नियंत्रण करने में मदद की।

• मीर जाफर ब्रिटिश ईस्ट इंडिया कंपनी के बंगाल के पहले आश्रित नवाब बने।

• अलीवर्दी खान 1740 से 1756 तक बंगाल के नवाब थे।

• सिराजुद्दौला बंगाल का अंतिम स्वतंत्र नवाब था।

77. B

Sol. • कूर्ग का कोडवा समुदाय कैलपोध उत्सव के दौरान हथियारों की पूजा करता है।

• कैलपोध त्योहार को हथियारों और फसल के त्योहार के रूप में भी जाना जाता है।

• जुटाई की कड़ी मेहनत में शामिल होने के बाद कोडावों के दावत का समय होता है।

• यह बुवाई के मौसम के अंत का प्रतीक है और पुरुषों को अपनी फसलों को जंगली से बचाने के लिए तैयार करने के लिए सचेत करता है।

• मदाई त्योहार सांस्कृतिक छत्तीसगढ़ के कई लोकप्रिय त्योहारों में से एक है।

- थाईपुसम तमिल महीने थाई में पूर्णिमा पर हिंदू तमिल समुदाय द्वारा मनाया जाने वाला त्योहार है।

78. C

Sol. • सूर्य के प्रकाश में सात रंग होते हैं।

- यह सात रंगों अर्थात् बैंगनी, नील, नीला, हरा, नारंगी और लाल में विभाजित होता है।
- जब सूर्य क्षितिज से ऊपर होता है तो यह दिन के उजाले के रूप में स्पष्ट होता है।
- यह सूर्य द्वारा छोड़े गए विद्युत चुम्बकीय विकिरण का एक भाग है।
- सूर्य की सतह से पृथ्वी तक पहुंचने में इसे लगभग 8.3 मिनट का समय लगता है।
- यह प्रकाश संश्लेषण में एक महत्वपूर्ण कारक है, प्रकाश ऊर्जा को परिवर्तित करने के लिए पौधों और अन्य स्वपोषी जीवों द्वारा उपयोग की जाने वाली प्रक्रिया।

79. A

Sol. • कामाख्या मंदिर गुवाहाटी में स्थित है।

- यह एक हिंदू मंदिर है और यह कामाख्या देवी को समर्पित है।
- यह तांत्रिक साधनाओं के सबसे पुराने और सबसे प्रतिष्ठित केंद्रों में से एक है।
- यह कुलाचार तंत्र मार्ग का केंद्र और अंबुबाची मेला का स्थल है।
- यह हिंदुओं के लिए सबसे पवित्र स्थानों में से एक है और शाक्त परंपरा में 51 पीठों में सबसे पुराने में से एक है।
- ऐसा माना जाता है कि यह वह स्थान है जहां देवी का गर्भ गिरा था।
- इसका निर्माण म्लेच्छ वंश के दौरान 8वीं - 9वीं शताब्दी में हुआ था।

80. A

Sol. • माता-पिता और वरिष्ठ नागरिकों के रखरखाव और कल्याण विधेयक, 2007 द्वारा निर्धारित माता-पिता को बच्चों द्वारा देय 10000 रुपये की मासिक रखरखाव राशि, माता-पिता और वरिष्ठ नागरिकों के रखरखाव और कल्याण (संशोधन) विधेयक, 2019 द्वारा हटा दी गई थी।

• माता-पिता और वरिष्ठ नागरिकों का भरण-पोषण और कल्याण अधिनियम 2007 माता-पिता और वरिष्ठ नागरिकों के भरण-पोषण और कल्याण के लिए अधिक प्रभावी प्रावधान प्रदान करता है।

• यह वृद्ध व्यक्तियों के जीवन और संपत्ति की सुरक्षा के लिए एक सरल, तेज और स्तर्ता तंत्र भी प्रदान करता है।

- माता-पिता और वरिष्ठ नागरिकों का भरण-पोषण और कल्याण विधेयक, 2019 का उद्देश्य वरिष्ठ नागरिकों और माता-पिता की रक्षा करना है, जिनमें वे भी शामिल हैं जो उपेक्षित हैं और खुद का समर्थन करने में असमर्थ हैं।

81. C

Sol. ● सकल राष्ट्रीय प्रसन्नता का तात्पर्य है कि सतत विकास को प्रगति की धारणाओं के प्रति एक समग्र दृष्टिकोण अपनाना चाहिए और भलाई के गैर-आर्थिक पहलुओं को समान महत्व देना चाहिए।

- इसमें एक सूचकांक शामिल होता है जिसका उपयोग जनसंख्या की सामूहिक खुशी और कल्याण को मापने के लिए किया जाता है।
- सकल घरेलू उत्पाद एक निश्चित समय अवधि में उत्पादित सभी अंतिम वस्तुओं और सेवाओं के बाजार मूल्य का एक मौद्रिक उपाय है।
- सकल राष्ट्रीय उत्पाद किसी देश के निवासियों के स्वामित्व वाले उत्पादन के माध्यम से एक निश्चित अवधि में प्राप्त सभी अंतिम उत्पादों और सेवाओं के कुल मूल्य का एक अनुमान है।
- शुद्ध राष्ट्रीय उत्पाद सकल राष्ट्रीय उत्पाद घाटा मूल्यहरास के अनुरूप है।

82. A

Sol. ● इंडिया डिवाइडेड राजेंद्र प्रसाद द्वारा लिखी गई है।

- यह एक महत्वपूर्ण ऐतिहासिक दस्तावेज और एक बहुत ही प्रामाणिक पुस्तक है।
- यह हिंदू और मुस्लिम वर्गों में भारत के विभाजन का एक विस्तृत और आधिकारिक खाता है।
- पिलम्पस ऑफ वर्ल्ड हिस्ट्री 1934 में जवाहरलाल नेहरू द्वारा प्रकाशित एक पुस्तक है।
- 'एन ऑटोबायोग्राफी: ट्रूवर्ड फ्रीडम' जवाहरलाल नेहरू द्वारा लिखी गई थी।
- राजेंद्र प्रसाद भारत के पहले राष्ट्रपति और पहले कृषि मंत्री थे।

83. C

Sol. ● द हिस्ट्री ऑफ ब्रिटिश इन इंडिया 1817 में स्कॉटिश अर्थशास्त्री जेम्स मिल द्वारा लिखा गया था।

- यह भारत में कंपनी शासन के इतिहास को दर्शाने वाला तीन खंडों का कार्य है।
- पार्टी एंड अन-ब्रिटिश रूल इन इंडिया दादाभाई नौरोजी द्वारा लिखित एक पुस्तक थी।
- ए पैसेज टू इंडिया 1924 में अंग्रेजी लेखक ई.एम. फोस्टर द्वारा लिखित उपन्यास था।
- ग्रेट म्यूटिनी किरस्टोफर हिबर्ट द्वारा लिखित एक पुस्तक थी।

- यह 1857 के महान भारतीय विद्रोह का एक सुंदर लिखित और सावधानीपूर्वक शोधित कथा इतिहास है।

84. D

Sol. • संयुक्त राष्ट्र विकास कार्यक्रम द्वारा जारी मानव विकास सूचकांक-2019 में भारत की रैंक 129 है।

- 2019 मानव विकास रिपोर्ट वैश्विक मानव विकास रिपोर्ट की श्रृंखला में नवीनतम है।

- मानव विकास सूचकांक-2019 इस बात पर जोर देने के लिए बनाया गया था कि किसी देश के विकास का आकलन करने के लिए लोगों और उनकी क्षमताओं को अंतिम मानदंड होना चाहिए, न कि केवल आर्थिक विकास।

- यह तीन आयामों में से प्रत्येक के लिए सामान्यीकृत सूचकांकों का ज्यामितीय माध्य है।

- इसमें संयुक्त राष्ट्र के सभी 193 सदस्य देशों के साथ-साथ फ़िलिस्तीन और हांगकांग एसएआर राज्य शामिल हैं।

85. B

Sol. • स्वदेशी आंदोलन से प्रेरित होकर, अबनिंद्रनाथ टैगोर ने भारत माता की अपनी प्रसिद्ध छवि को एक तपस्वी व्यक्ति के रूप में चित्रित किया।

- अबनिंद्रनाथ टैगोर ने प्रभावशाली बंगाल कला विद्यालय की स्थापना की।

- वे भारतीय कला में स्वदेशी मूल्यों के पहले प्रमुख प्रतिपादक भी थे।

- सत्येंद्रनाथ टैगोर पहले भारतीय थे जो 1864 में भारतीय सिविल सेवा अधिकारी बने।

- ज्योतिरिंद्रनाथ टैगोर एक नाटककार, संगीतकार, संपादक और चित्रकार थे।

- द्विजेन्द्रनाथ टैगोर बंगाली लिपि में आशुलिपि और अंकन के अग्रदूतों में से एक थे।

86. A

Sol. • हाफिज 14वीं सदी के कवि थे, जिनकी कविताओं का संग्रह 'दीवान' या 'दीवान-ए-हाफ़िज़' के नाम से जाना जाता है।

- वह एक फ़ारसी गीतकार थे, जिनकी एकत्रित कृतियों को कई ईरानी फ़ारसी साहित्य के शिखर के रूप में मानते हैं।

- उन्हें हाफ़िज़ के दीवान के लिए जाना जाता है, जो उनकी जीवित कविताओं का एक संग्रह है जो शायद उनकी मृत्यु के बाद संकलित किया गया था।

- उन्होंने मुख्य रूप से गीत कविता या ग़ज़ल की साहित्यिक शैली में लिखा था।

- वह अपने जीवनकाल में इस्लामी दुनिया भर में प्रशंसित था।

- वह ईरान में सबसे लोकप्रिय कवि हैं और उनकी रचनाएँ लगभग हर ईरानी घर में पाई जा सकती हैं।

87. C

Sol. • रेबीज प्रदूषित पानी पीने से नहीं होता है।

- यह एक वायरल रोग है जो मनुष्यों और अन्य स्तनधारियों में मस्तिष्क की सूजन का कारण बनता है।
- यह रेबीज वायरस और ऑस्ट्रेलियाई बैट लाइसावायरस सहित लाइसावायरस के कारण होता है।
- यह तब फैलता है जब कोई संक्रमित जानवर इंसानों या अन्य जानवरों को काटता है या खरोंचता है।
- हैंजा विबिरयों कोलेरा नामक जीवाणु के कुछ उपभेदों द्वारा छोटी आंत का संक्रमण है।
- मेनिनजाइटिस मस्तिष्क और रीढ़ की हड्डी को ढकने वाली सुरक्षात्मक डिल्लियों की सूजन है।

88. D

Sol. • रोहित शर्मा पहले भारतीय क्रिकेटर हैं जिन्होंने टेस्ट ओपनर के रूप में अपने पदार्पण मैच में दोहरा शतक बनाया है।

- वह सीमित ओवरों के प्रारूप में भारतीय राष्ट्रीय टीम के कप्तान और टेस्ट क्रिकेट में उप-कप्तान हैं।
- उनके पास सबसे तेज 23,000 अंतर्राष्ट्रीय रन बनाने का विश्व रिकॉर्ड भी है।
- विराट कोहली भारतीय राष्ट्रीय टीम के पूर्व कप्तान हैं और उन्हें अक्सर अपने युग के सर्वश्रेष्ठ बल्लेबाजों में से एक माना जाता है।
- एमएस धोनी वर्तमान में चेन्नई सुपर किंग्स के कप्तान हैं।
- उन्हें अक्सर भारतीय क्रिकेट टीम का सबसे महान कप्तान माना जाता है।
- शिखर धवन आईपीएल के इतिहास में एक के बाद एक दो शतक बनाने वाले पहले खिलाड़ी बने।

89. A

Sol. • जिंक + सल्फ्यूरिक एसिड → जिंक सल्फेट + हाइड्रोजन।

- जिंक आवर्त सारणी के समूह 12 में पहला तत्व है।
- यह पृथकी की पपड़ी में 24 वां सबसे प्रचुर मात्रा में तत्व है।
- सल्फ्यूरिक एसिड एक खनिज एसिड है जो सल्फर, ऑक्सीजन और हाइड्रोजन तत्वों से बना है।
- हाइड्रोजन सबसे हल्का तत्व है और ब्रह्मांड में सबसे प्रचुर मात्रा में रासायनिक पदार्थ है।

- कार्बन पृथ्वी की पपड़ी में 15वां सबसे प्रचुर तत्व है और द्रव्यमान के हिसाब से ब्रह्मांड में चौथा सबसे प्रचुर तत्व है।

- क्लोरीन हैलोजन का दूसरा सबसे हल्का है और यह कमरे के तापमान पर पीले-हरे रंग की गैस है।

90. B

Sol. • सड़ियो माने एक पेशेवर फुटबॉल खिलाड़ी हैं।

- वह प्रीमियर लीग क्लब लिवरपूल और सेनेगल राष्ट्रीय टीम के लिए एक विंगर के रूप में खेलते हैं।

- उन्हें 2020 में न्यू अफ्रीकी पतिरका द्वारा शीर्ष 100 सबसे प्रभावशाली अफ्रीकियों में से एक के रूप में उद्घृत किया गया था।

- बोरिस गेलफैंड सोवियत मूल के इजरायली शतरंज खिलाड़ी हैं।

- पीटर स्विडलर एक रूसी शतरंज ग्रैंडमास्टर और आठ बार के रूसी शतरंज चैम्पियन हैं।

- मैग्नस कार्लसन के नाम शास्त्रीय शतरंज में शीर्ष स्तर पर सबसे लंबे समय तक नाबाद रहने का रिकॉर्ड है।

91. D

Sol. • अजवायन की पत्ती एक प्राकृतिक अम्ल-क्षार संकेतक नहीं है।

- अजवायन एक विशिष्ट गंध वाली जड़ी बूटी है और इसमें ऐसे रसायन होते हैं जो बैक्टीरिया और फंगल संक्रमण में मदद कर सकते हैं।

- लाल गोभी संकेतक में एंथोसायनिन नामक एक पानी में घुलनशील वर्णक होता है जो अम्ल या क्षार के साथ मिश्रित होने पर रंग बदलता है।

- जेरेनियम फूल एक संकेतक हैं जिसमें एंथोसायनिन पेलार्गोनिडिन होता है, जो एक अम्लीय घोल में नारंगी-लाल से एक मूल घोल में नीले रंग में बदल जाता है।

- पेट्रुनिया फूल सूचक एक अम्लीय घोल में लाल से बैंगनी रंग में बदल जाता है और मूल घोल में बैंगनी हो जाता है।

92. A

Sol. • पश्चिम बंगाल में बुक्सा टाइगर रिजर्व को चल रहे डोलोमाइट खनन से खतरा है।

- यह 1983 में भारत में 15वें टाइगर रिजर्व के रूप में बनाया गया था और यह 760 वर्ग किमी के क्षेत्र में विस्तृत है।

- आम स्तनपायी एशियाई हाथी, गौर, सांभर हिरण, बादलदार तेंदुआ, भारतीय तेंदुआ हैं।

- पश्चिम बंगाल दुनिया का आठवां सबसे अधिक आबादी वाला देश उपखंड भी है।

- यह चौथा सबसे अधिक आबादी वाला राज्य है और भारत में क्षेत्रफल के हिसाब से चौदहवां सबसे बड़ा राज्य है।

93. B

Sol. • नवाब की कुशासन के बहाने अंग्रेजों ने अवधि रियासत पर कब्जा कर लिया था।

- अवधि आधुनिक भारतीय राज्य उत्तर प्रदेश में एक क्षेत्र और प्रस्तावित राज्य है।
- उदयपुर मेवाड़ राज्य की ऐतिहासिक राजधानी है और इसकी स्थापना 1559 में राजपूत के सिसोदिया वंश के उदय सिंह द्वितीय ने की थी।
- नागपुर तीसरा सबसे बड़ा शहर और भारतीय राज्य महाराष्ट्र की शीतकालीन राजधानी है।
- सतारा कास पठार, वोघर और शहर के आसपास मौजूद कई प्राकृतिक स्थलों के लिए प्रसिद्ध है।

94. C

Sol. • हिल्टन यंग कमीशन ने 1929 में "भारतीय रिजर्व बैंक" कहलाने वाले एक केंद्रीय बैंक की स्थापना की, भारतीय रिजर्व बैंक गलत है।

- भारतीय रिजर्व बैंक भारत का केंद्रीय बैंक और नियामक संस्था है।
- यह देश की मुख्य भुगतान प्रणालियों का प्रबंधन करता है और इसके आर्थिक विकास को बढ़ावा देने के लिए काम करता है।
- यह भारतीय रूपये के मुद्दे और आपूर्ति और भारतीय बैंकिंग प्रणाली के नियमन के लिए जिम्मेदार है।
- यह वित्तीय समावेशन नीति को बढ़ावा देने में भी सक्रिय है और वित्तीय समावेशन के लिए गठबंधन का एक प्रमुख सदस्य है।

95. C

Sol. • कंपनी द्वारा घोषित लाभांश, लेकिन घोषणा की तारीख से 30 दिनों के भीतर भुगतान या दावा नहीं किया गया है, कंपनी अधिनियम, 2013 के अनुसार अवैतनिक लाभांश खाते में स्थानांतरित किया जाना है।

- लाभांश को कंपनी द्वारा अपने शेयरधारकों को कंपनी द्वारा किए गए मुनाफे में से भुगतान की गई राशि के रूप में परिभाषित किया जा सकता है।
- अध्याय VIII की धारा 123 से 127 लाभांश की घोषणा और भुगतान से संबंधित प्रावधानों से संबंधित है।
- कंपनी को लाभांश की घोषणा की तारीख से 5 दिनों के भीतर घोषित लाभांश की राशि जमा करना आवश्यक है।
- लाभांश की घोषणा के 30 दिनों के भीतर भुगतान करना आवश्यक है, ऐसा नहीं करने पर कंपनी डिफॉल्ट की अवधि के लिए 18% प्रति वर्ष की दर से ब्याज का भुगतान करने के लिए उत्तरदायी होगी।

96. A

Sol. • यमुना हिमपात वाली नदी है।

- यह डिस्चार्ज के हिसाब से गंगा की दूसरी सबसे बड़ी सहायक नदी है और भारत की सबसे लंबी सहायक नदी है।
- यह हिंदू धर्म में अत्यधिक पूजनीय है और देवी यमुना के रूप में पूजा की जाती है।
- कावेरी भी भारत की सात पवित्र नदियों में से एक है और यह दक्षिण भारत के लोगों के लिए एक पवित्र नदी है।
- नर्मदा नदी भारत की 5वीं सबसे लंबी और कुल मिलाकर पश्चिम की ओर बहने वाली सबसे लंबी नदी है।
- इसे मध्य प्रदेश और गुजरात की जीवन रेखा के रूप में भी जाना जाता है।
- गोदावरी भारत की दूसरी सबसे लंबी और भारत में तीसरी सबसे बड़ी नदी है।

97. D

Sol. • पहली जूट मिल 1859 में कोलकाता के रिशरा में स्थापित की गई थी।

- एकलैंड मिल भारत में स्थापित पहली जूट मिल थी और इसकी स्थापना 1855 में हुई थी।
- इसकी स्थापना ब्रिटिश उद्यमी जॉर्ज एकलैंड और बंगाली फाइनेंसर बाबू बिसुम्बर सेन ने की थी।
- हावड़ा भारतीय राज्य पश्चिम बंगाल का दूसरा सबसे बड़ा शहर है और यह हुगली नदी के पश्चिमी तट पर स्थित है।
- कोलकाता भारतीय राज्य पश्चिम बंगाल की राजधानी है और यह हुगली नदी के पूर्वी तट पर स्थित है।

98. C

Sol. • वर्नाक्युलर प्रेस एक्ट वर्ष 1878 में ब्रिटिश भारत में अधिनियमित किया गया था।

- यह भारतीय प्रेस की स्वतंत्रता को कम करने और ब्रिटिश नीतियों के प्रति आलोचना की अभिव्यक्ति को रोकने के लिए अधिनियमित किया गया था।
- यह लिटन द्वारा प्रस्तावित किया गया था और 14 मार्च 1878 को वायसराय की परिषद द्वारा सर्वसम्मति से पारित किया गया था।
- संपत्ति हस्तांतरण अधिनियम 1882 भारतीय कानून है जो भारत में संपत्ति के हस्तांतरण को नियन्त्रित करता है।
- इसमें स्थानांतरण और इससे जुड़ी शर्तों के संबंध में विशिष्ट प्रावधान शामिल हैं।
- भारतीय अनुबंध अधिनियम भारत में अनुबंधों से संबंधित कानून निर्धारित करता है और यह 1 जुलाई 1882 को लागू हुआ।

99. D

Sol. • सीसा और पारा ऊषा के सबसे अच्छे संवाहक हैं यह एक गलत कथन है।

- बुध ऊषा का कुचालक है परन्तु विद्युत का सुचालक है।

- यह एकमात्र धात्विक तत्व है जो तापमान और दबाव के लिए मानक परिस्थितियों में तरल है।
- सीसा नरम और निंदनीय होता है और इसका गलनांक भी अपेक्षाकृत कम होता है।
- यह ऊषा और बिजली का कुचालक है और संक्रमण के बाद यह अपेक्षाकृत अक्रियाशील धातु है।
- यह सामान्य स्वास्थ्य, हृदय और गुर्दे की प्रणाली को भी प्रभावित करता है।

100. C

Sol. • अरुणाचल प्रदेश की गालो जनजाति का त्योहार मोपिन हर साल अप्रैल में मनाया जाता है।

- यह लुमी और लुकी के गालो महीनों में आयोजित कटाई के मौसम का उत्सव है।
- मोपिन महोत्सव की आधिकारिक तिथि 5 अप्रैल तय की गई है।
- ऐसा माना जाता है कि यह सभी घरों और पूरे समुदाय के लिए धन और समृद्धि लाता है।
- मी दाम में फी असम के लोगों द्वारा मनाए जाने वाले मुख्य धार्मिक समारोहों में से एक है।
- अली-ऐ-लिगांग कृषि से जुड़ा एक वसंत त्योहार है और यह बीज बोने की शुरुआत का प्रतीक है।