



SSC MTS 2020 Tier I : 27

October S1

Mock Test Questions & Solutions

Mock Test Solutions in English

Questions

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

If you damage the property of others, you are under a legal _____ to pay for the repairs.

- | | |
|----------------|--------------------|
| A. obligation | B. acknowledgement |
| C. requirement | D. appreciation |

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

Make no bones about something

- A. Insist on buying only boneless mutton
 - B. Be frank and open about something
 - C. Be fussy about bones in one's soup
 - D. Take care of one's health

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

To take for granted

- A. To get a scholarship and assignment easily
 - B. To apply for a loan with low rates of interest
 - C. To accept without question or objection
 - D. To accept a sponsorship without much fuss

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

LOYALTY

- | | |
|------------|-----------------|
| A. hatred | B. faithfulness |
| C. dislike | D. pleasure |

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'.

While driving down, Girish having to apply for official permission to cross the two states.

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

HOPE

A. promise

B. faith

C. trust

D. despair

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

A person who lives a solitary life and tends to avoid other people

A. Vagabond

B. Recluse

C. Guru

D. Saint

8. Select the INCORRECTLY spelt word.

A. objective

B. opportunity

C. explaination

D. contextual

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

By the way, will you taught me how to speak in English?

A. in English

B. will you taught me

C. how to speak

D. By the way

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

Mani will carry the bundle of clothes in a bucket to dry them out in the sun every day.

A. carries

B. No substitution required

C. carry

D. have carried

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

As soon the ceremony was over, the champions would walk in a majestic procession.

A. As soon the ceremony was over

B. in a majestic procession

C. would walk

D. the champions

12. Select the INCORRECTLY spelt word.

A. refrigerator

B. talevision

C. machine

D. vacuum-cleaner

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

I completed my learner's driving test last week. When am I going to get my _____ license?

A. constant

B. permanent

OMINOUS

- | | |
|----------------|---------------|
| A. threatening | B. promising |
| C. capable | D. favourable |

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

After a long and tiring day, Lata said she was completely _____.

- A. exhaust
 - B. exhausts
 - C. exhausted
 - D. exhausting

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

The study of the origin and meanings of words

- | | |
|---------------|-----------------|
| A. Embryology | B. Etymology |
| C. Entomology | D. Epistemology |

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

BARREN

- A. fertile
 - B. empty
 - C. vacant
 - D. clear

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

The Principal is going to meeting the senior classes tomorrow.

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

The human brain regulates and coordinates all the voluntary and involuntary moves _____ we make.

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

Asking for and giving informations is an important feature of conversations.

- A. giving informations
 - B. feature of conversations
 - C. is an important
 - D. Asking for and

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.

The radio was already on. The radio comes (###Q1###) _____ automatically at 7 o'clock to wake me (###Q2###) _____. I looked at the clock. (###Q3###) _____ was already ten past seven. I had to get up quickly. I went into the shower, and I could (###Q4###) _____ the news on the radio. I couldn't hear it very well, but there was a story on the news about an elephant that had (###Q5###) _____ from a local circus.

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

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

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

- A. That
 - B. What
 - C. It
 - D. Which

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

- | | |
|-----------|-------------|
| A. heard | B. hear |
| C. listen | D. listened |

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

- | | |
|--------------|-------------|
| A. captured | B. escaped |
| C. absconded | D. released |

26. Select the option figure that is embedded in the given figure as its part (rotation is NOT allowed).



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

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

$$4 : 80 :: 6 : ?$$

28. In a certain code language, 'TYPICAL' is written as '93' and 'FRAME' is written as '48'. How will 'SENSOR' be written in that language?

29. In a certain code language, 'HEALTH' is written as '132961' and 'EARTH' is written as '32761'. How will 'LATER' be written in that language?

30. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

DEARTH : BFEIUS :: MOSQUE : ?

- | | |
|-----------|-----------|
| A. TPOGVR | B. TPNCWR |
| C. TPNFVR | D. TPOEVS |

31. 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 beds are sofa sets.

Some sofa sets are mattresses.

Conclusions:

- I. Some sofa sets are beds.
- II. Some mattresses are sofa sets.

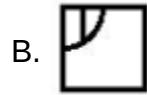
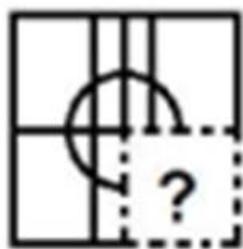
- A. Both conclusions I and II follow
- B. Only conclusion II follows
- C. Only conclusion I follows
- D. Neither conclusion I nor II follows

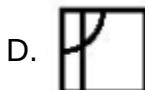
32. **Select the option that is related to the third word in the same way as the second word is related to the first word.**

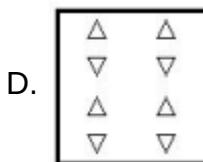
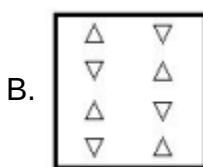
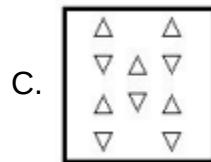
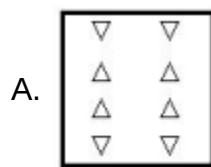
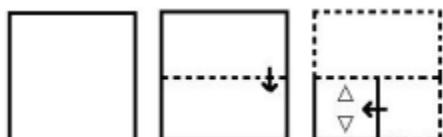
Night-watchman : Cricket :: Deuce : ?

- A. Tennis
- B. Wrestling
- C. Skating
- D. Kabaddi

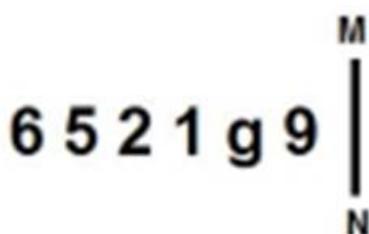
33. **Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.**







37. Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.



A. 652198

B. **e 21 a**

c. **e g t z e**

D. 691259

$$19 * 24 * 8 * 4 * 6 * 40$$

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

UNXQ, VOYR, XQAT, ATDW, ?

- | | |
|---------|---------|
| A. EYGD | B. EYHB |
| C. EXHA | D. DYHA |

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

60, 120, 125, 250, 255, ?, 515

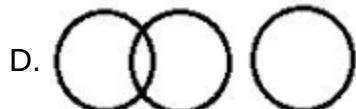
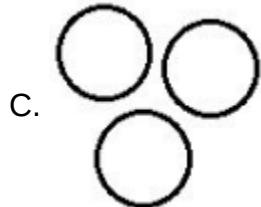
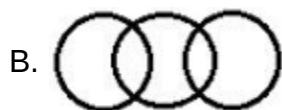
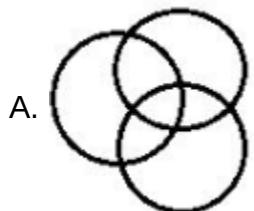
43. Arpan, Lohit, Vinayak, Kripal and Ashraf are watching a movie. All are sitting in a line facing the screen. Kripal is to the immediate left of Ashraf. Vinayak is to the immediate left of Arpan. Lohit is second to the left of Arpan. Kripal is sitting at one of the corners. Who is sitting to the immediate right of Ashraf?

- A. Vinayak
- C. Arpan

- B. Lohit
- D. Kripal

44. Select the Venn diagram that best illustrates the relationship between the following classes.

Villagers, Boys, Girls



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

60, 80, 64, 70, 68, 60, ?, 50

- A. 72
- C. 70

- B. 44
- D. 52

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

$$39 \times 6 + 27 \div 3 - 52 = 123$$

- A. 39 and 27
- C. 3 and 52

- B. 3 and 6
- D. 39 and 52

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

Biology : Science :: Political Science : ?

- A. Politician
- B. Social Science

C. Languages

D. Earth Science

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

8	14	224
11	15	330
9	12	?

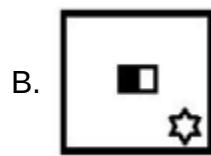
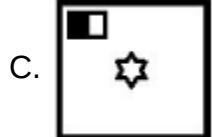
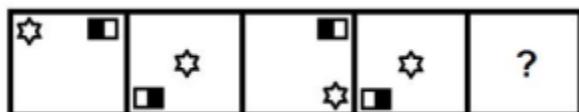
A. 298

B. 230

C. 216

D. 244

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



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

Statements:

Some cricketers are players.

No player is a musician.

Conclusions:

I. No cricketer is a musician.

II. Some players are cricketers.

III. No musician is a player.

A. All of the conclusions follow

C. Only conclusions I and II follow

B. Only conclusions I and III follow

D. Only conclusions II and III follow

51. A shopkeeper mixed two kinds of rice in the ratio 1 : 5. Type 1 rice costs Rs.65 per kg and type 2 rice costs Rs.95 per kg. He sold the mixed rice at Rs.99 per kg. Find his gain percentage.

A. $25\frac{1}{3}\%$

B. 19%

C. 10%

D. 4%

52. The LCM of two numbers is 90, whereas their HCF is 6. If one number is 12 more than the other, then the greater number is:

A. 12

B. 45

C. 30

D. 51

53. The average age of Akhil and Sunita is 51 years, of Sunita and Veena is 31 years, and that of Veena and Akhil is 33 years. The age of Veena is:

A. 13 years

B. 49 years

C. 53 years

D. 17 years

54. A train 700 m long, is running at a speed of 60 km/h. If it takes 72 seconds to cross a bridge, then find the length of the bridge.

A. 1700 m

B. 1200 m

C. 600 m

D. 500 m

55. A shopkeeper bought a computer for Rs.42,000 and a printer for Rs.3,000. If he sold both the items together for Rs.51,750, then his profit percentage is:

A. 15%

B. $17\frac{2}{9}\%$

C. $16\frac{1}{14}\%$

D. $23\frac{3}{14}\%$

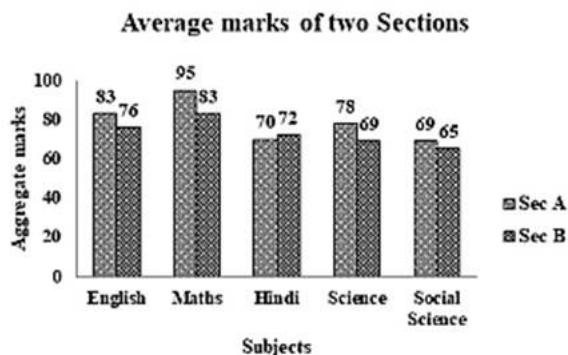
56.

The value of $4\frac{1}{3} + \left[7\frac{2}{3} - \frac{4}{3} \left(\frac{25}{3} - \frac{1}{6} - \frac{2}{3} \right) \right]$ is:

C. 27.5

D. 40

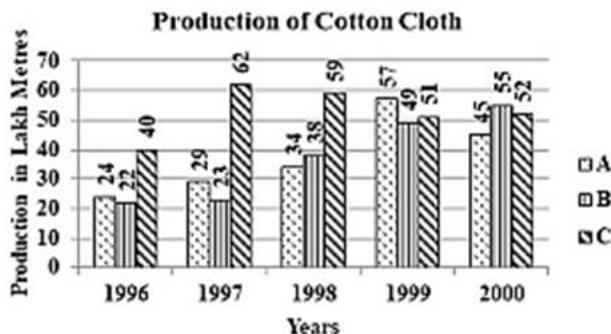
63. Babulal runs a juice corner outside a park and sells giloy juice (giloy+ water) in the morning. Initially he had 19 litres juice, which had giloy and water in the ratio 2 : 9. He sold $2\frac{1}{2}$ litres juice. Later, in order to dilute it, he added some water and the ratio of giloy and water became 1 : 5. How much water was added?
- A. $1\frac{1}{2}$ litres B. $\frac{1}{2}$ litre
C. 2 litres D. 1 litre
64. The average marks of students of section A and section B of class XI in a school have been presented in the given bar graph. Study the graph and answer the question that follows.



In how many subjects have the students of section A shown better result?

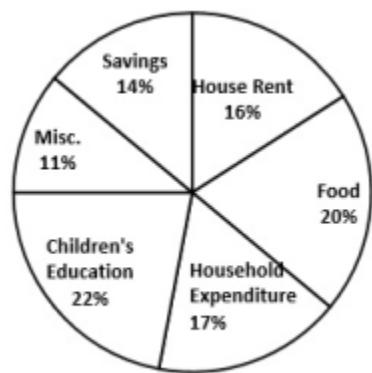
- A. 1 B. 4
C. 5 D. 2

65. If the length of a rectangle is increased by 12% and the width is decreased by 10%, then the ratio of the areas of the original rectangle and the changed rectangle is:
- A. 125 : 126 B. 126 : 125
C. 1 : 2 D. 25 : 26
66. The given graph shows the production of cotton cloth (in lakh metres) by three companies A, B and C over the years. Study the graph and answer the question that follows.



What is the difference (in lakh metres) between increase in the production by company A from 1998 to 1999 and that by company C from 1996 to 1997?

Study the chart and answer the question that follows.



By how much is the central angle of the amount spent on Misc. and House Rent taken together more than that on Household Expenditure?

- A. 40° B. 30°
C. 36° D. 10°

If a car covers a certain distance in 1 hour 24 minutes by covering two-third of the distance at 52 km/h and the rest at 65 km/h, then find the total distance.

A. 78 km B. 163.8 km
C. 75.8 km D. 46.8 km

69. A solid metallic toy has a hemispherical base with radius 3.5 cm surmounted by a cone. If the height of the cone is the same as the radius of its base, then the volume of metal used in cm^3 is: (Take $\pi = \frac{22}{7}$)
- A. $89\frac{2}{3} \text{ cm}^3$ B. $144\frac{3}{4} \text{ cm}^3$
C. $134\frac{3}{4} \text{ cm}^3$ D. $179\frac{2}{3} \text{ cm}^3$
70. Sumit invested Rs.50,000 each in two banks for 2 years. The first bank gives simple interest at the rate of 11% per annum, while the other bank gives compound interest, compounded annually at the rate of 10% per annum. How much interest did he earn from the two banks in 2 years?
- A. Rs.21,000 B. Rs.10,000
C. Rs.10,500 D. Rs.21,500
71. 16% of the voters did not cast their votes in an election between two candidates. 10% of the votes polled were found to be invalid. The successful candidate got 60% of valid votes and won by a margin of 567 votes. The number of voters enrolled in the voter list is:
- A. 3000 B. 3750
C. 2500 D. 3570
72. It was intended that Rs.2,820 be divided among A, B and C in the ratio of 3 : 4 : 5, but by mistake the distribution was made in the proportion of $\frac{1}{3} : \frac{1}{4} : \frac{1}{5}$. How much does A gain by the error?
- A. Rs.500 B. Rs.495
C. Rs.720 D. Rs.17
73. 6 men and 8 women as well as 3 men and 13 women can finish the same work in 10 days. In how many days will 6 women finish the same work if they work alone?
- A. 32 B. 25
C. 30 D. 35
74. A man can do a work in 6 days, whereas a woman can do the same work in 12 days. In how many days will a man and a woman working together be able to do the same work?
- A. 4 B. $3\frac{1}{2}$
C. 5 D. 3
- 75.

The simplified value of $\frac{1 \div \frac{3}{7} \text{ of } (6 + 8 \times \overline{3 - 2}) + \left[\frac{1}{5} \div \frac{7}{25} - \left\{ \frac{3}{7} + \frac{8}{14} \right\} \right]}{18 \div 10 - 4 + 32 \div (4 + 10 \div 2 - 1)}$ is:

- A. $-\frac{5}{42}$ B. $\frac{5}{42}$
C. $-\frac{5}{294}$ D. $\frac{5}{294}$

76. With which of the following states is the 'Banganga' Festival associated?
A. Punjab B. Sikkim
C. Uttarakhand D. Maharashtra
77. The SI unit for frequency is _____.
A. ohm B. hertz
C. volt D. joule
78. In which year did the British Government announce Morley-Minto Reforms in India?
A. 1905 B. 1919
C. 1932 D. 1909
79. When is National Handloom Day celebrated?
A. 23rd August B. 18th November
C. 15th September D. 7th August
80. What is the full form of LED?
A. Linear Emergency Device B. Light Emitting Diode
C. Liquid Emitting Display D. Light Emitting Device
81. Which of the following Articles of the Constitution of India states that Hindi in Devanagari script shall be the official language of the Union?
A. Article 343(2) B. Article 354(2)
C. Article 343(1) D. Article 343(3)
82. Pritzker Prize is commonly known as the Nobel Prize given for the field of _____.
A. Science B. Economics
C. Architecture D. Arts
83. Bhojtal, formerly known as Upper Lake, is situated in which of the following states?
A. Odisha B. Madhya Pradesh

- C. Rajasthan D. Uttar Pradesh

84. In which of the following cities is the Jawaharlal Nehru Manipur Dance Academy located?
A. Guwahati B. Bengaluru
C. Imphal D. Hyderabad

85. Which of the following government authorities can appoint the Chief Election Commissioner of India?
A. The Prime Minister B. The President
C. The Vice President D. Chief Justice of Supreme Court

86. Which of the following states of India became the first state to have a Tsunami Ready village as of August 2020?
A. Tamil Nadu B. Odisha
C. Kerala D. Gujarat

87. Barium nitrate is used in signal flares and fireworks that burn in bright _____ colour.
A. orange B. blue
C. yellow D. green

88. When was a massive employment-cum-rural public works campaign named 'Garib Kalyan Rojgar Abhiyaan' (GKRA) launched by the Government of India to empower and provide livelihood opportunities to migrant workers?
A. June 2019 B. June 2020
C. June 2018 D. June 2017

89. To which of the following countries did the Export-Import Bank of India extend a \$250 million line of credit for improving power supply quality in the country?
A. Nepal B. Mozambique
C. Bangladesh D. Sri Lanka

90. Fiscal policy helps the government of a country to control the flow of:
A. equity market B. angel investment
C. personal expenditure D. tax revenues

91. Which of the following sanitation campaigns was launched across India on 2 October 2014 by the Ministry of Drinking Water and Sanitation for rural areas?
A. Mission Vriksharopan B. Swachh Bharat Mission
C. Smart City Centre Scheme D. Pradhan Mantri Jan Vikas Karyakaram

92. Who among the following is the author of 'Being Gandhi'?
A. B. C. D.

A. Ashis Ray

C. Nirupama Yadav

B. Paro Anand

D. V Pattabhi Ram

93. Who is known as the 'Wizard of Hockey'?

A. Balbir Singh

C. Mohammed Shahid

B. Dhanraj Pillay

D. Major Dhyan Chand

94. When is World Nature Conservation Day observed?

A. 12th July

C. 28th July

B. 5th Aug

D. 30th May

95. In which year was Sri Lanka discovered by the Portuguese?

A. 1545

B. 1678

C. 1505

D. 1670

96. Who won the Arjuna Award for Para-Swimming at the National Sports Awards, 2020?

A. Gaurav Khanna

B. Mariyappan T

C. Suyash Jadhav

D. Vijay Munishwar

97. In which of the following years did the Congress Party led by Indira Gandhi give the slogan of 'Garibi Hataao' ('Remove poverty') in the Lok Sabha elections?

A. 1957

B. 1962

C. 1977

D. 1971

98. Who among the following is one of the first three Indian female fighter pilots who received the 'Nari Shakti Puraskar 2019' in March 2020?

A. Nirupama Yadav

B. Janaki Sabesh

C. Seema Rao

D. Avani Chaturvedi

99. What is the main religion of Myanmar?

A. Islam

B. Jainism

C. Christianity

D. Buddhism

100. In which year was the office of the first Accountant-General established in India?

A. 1858

B. 1845

C. 1890

D. 1867

Solutions

1. A

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

- * *Obligation* = the state of being forced to do something because it is your duty, or because of a law etc.
- * *Acknowledgement* = an act of accepting that something exists or is true, or that something is there.
- * *Requirement* = something that you need or want.
- * *Appreciation* = pleasure that you have when you recognize and enjoy the good qualities of someone/something.

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

- * “*Acknowledgement*” as a noun is used in context of “accepting something”. Thus, option B is incorrect.
- * “*Requirement*” as a noun means something that you need or want. Thus, option C is incorrect.
- * “*Appreciation*” as a noun is used in context of “having pleasure in recognising something”. Thus, option D is incorrect.
- * “*Obligation*” as a noun is used in context of “doing something that you are legally bound to do”.
- * Here in the given sentence, it is used to mention that if someone damages the property then he/she is liable to pay for the repairs as per the rules set by the legal framework.

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

Thus, the correct sentence will be: **If you damage the property of others you are under a legal obligation to pay for the repairs.**

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

2. B

Sol. The idiom "**make no bones about something**" means to be honest and open about something.

Example: He **made no bones about** telling her exactly what he thought of her.

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

3. C

Sol. The idiom "**to take for granted**" means to believe something is true without first making sure that it is.

Example: I just **took it for granted** that he would always be around.

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

4. B

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

Loyalty = be loyal to someone/something

E.g.: His primary **loyalty** was to his family.

Hatred = a very strong feeling of dislike for someone/something.

Faithfulness = the quality of staying with or supporting a particular person, organisation, or belief.

E.g.: We had doubts about his **faithfulness**.

Dislike = to not like someone/something.

Pleasure = a state of feeling or being happy or satisfied.

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

5. B

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

- * Underlined part needs correction in structure of verb.
- * “Has/Have/Had + to” is used to show the necessity like the modal verb “must”. As per subject verb agreement, “has to” is used with the singular subject and “Have to” is used with plural. Unlike, “must” that does not have past form, we use “Had to” to fulfil that space in simple past tense i.e. when the “action really happened”.

For example:

He **has to** curb his natural exuberance.

I **have to** go on a diet. The doctor has told me to.

I **had to** pay \$15 for this railcard last week.

- * “Having + to” is the continuous form of “have + to” verb.

For example:

It's no fun **having to** stand the whole journey.

* In the underlined part of the given sentence, we have used continuous form of verb i.e. “having to”. This is wrong because the action of “apply” actually happened in past timeline and it is not in continuing state now. To show that this act happened while “Girish” was driving we have to use the past form of verb i.e. “had to”.

* Also, we can't use “have to” because as per the subject verb agreement singular subject (i.e. “Girish”) takes singular helping verb (i.e. “has to”) which is unavailable in the options. Thus, to preserve the sense of “necessity” in the sentence, we are left with only form of verb i.e. “had to”.

* Hence, “**had to apply**” is the correct substitution.

Thus, the correct sentence will be:

While driving down, Girish had to apply for official permission to cross the two states.

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

6. D

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

Hope =a feeling of wanting and expecting a particular thing to happen.

E.g.: They have high **hopes** for their children.

Promise =a statement that tells someone that you will definitely do or not do something.

Faith = trust in someone's ability or knowledge.

Trust = the belief that someone/something is good, sincere, honest etc. and will not try to harm or trick you.

Despair = the feeling of having lost all hope.

E.g.: A deep sense of **despair** overwhelmed him.

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

7. B

Sol. Vagabond: a person who has no home or job and who travels from place to place.

Recluse: a person who lives alone and likes to avoid other people.

Guru: a person who is an expert on a particular subject or who is very good at doing something.

Saint: a person that the Christian Church recognizes as being very holy, because of the way they have lived or died.

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

8. C

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

"Explanation" is the correct spelling of the incorrect word "explaination". It means a statement, fact, or situation that tells you why something happened.

The meaning of other words are:

Objective: something that you are trying to achieve.

Opportunity: a time when a particular situation makes it possible to do or achieve something.

Contextual: connected with a particular context.

9. B

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

* Structure of Interrogative sentence in simple future tense:

Shall/will + Subject + first form of verb + Object?

For example:

Will you **call** the kids in for lunch?

Shall we **meet** at eight o'clock for dinner?

* The given interrogative sentence is set in simple future tense. But we have erroneously used third form of verb i.e. "taught" after the modal verb "will". Thus, first form of verb "teach" should be used in place of "taught" as per the structure of simple future tense.

* Hence, "**will you teach me**" is the correct substitution.

Thus, the correct sentence will be:

By the way, will you teach me how to speak in English?

10. A

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

* Underlined part needs correction in tense.

* Present indefinite tense is used to denote "habit, repeated action, custom etc. This is reflected in the use of adverbs of frequency like "everyday", "daily", "seldom", "usually" etc.

For example:

He **usually goes** for a walk in the morning.

* Future indefinite tense is used to show the action that is going to take place in future. It is usually denoted by time expressions like “tomorrow”, “next day/week/month/year” etc.

For example:

It is now confirmed that the meeting **will** take place **next week**.

* In the given sentence, we have adverb of frequency “every day” that shows that the action (i.e. “carry”) is happening on a daily basis. But we have erroneously used future tense. Thus, as per the structure of simple present tense, first form of verb “carries” should be used in place of “will carry”.

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

Thus, the correct sentence will be:

Mani carries the bundle of clothes in a bucket to dry them out in the sun every day.

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

11. A

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

* “As soon as” as a conjunction is used to start the adverbial clause of time.

For example:

I'll come and see you **as soon as** I've finished work.

Here, “I have finished work” is the adverbial clause of time started by conjunction “as soon as”.

* In the given sentence we have “the ceremony was over” as an adverbial clause of time that shows the time or moment when “the champions would walk in a majestic procession”. But we have used the wrong structure of conjunction to start the adverbial clause of time. Thus, correct form of conjunction “as soon as” should be used.

* Hence, “**As soon as the ceremony was over**” is the correct substitution.

Thus, the correct sentence will be:

As soon as the ceremony was over, the champions would walk in a majestic procession.

12. B

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

“Television” is the correct spelling of the incorrect word “talevision”. It means a piece of electrical equipment with a screen on which you can watch program with moving pictures and sounds.

The meaning of other words are:

Refrigerator: a piece of electrical equipment in which food is kept cold so that it stays fresh.

Machine: a piece of equipment with many parts that work together to do a particular task.

Vacuum-cleaner: an electrical machine that cleans floors, carpets etc. by sucking up dirt and dust.

13. B

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

* *Constant* = happening all the time or repeatedly.

* *Permanent* = lasting for a long time; existing all the time.

* *Final* = being or happening at the end of a series of events, actions etc.

* *Lasting* = continuing to exist or to have an effect for a long time.

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

* “*Constant*” as an adjective is used in context of “repeated occurrence of something”. Thus, option A is incorrect.

* “*Final*” as an adjective is used in context of “at the end of a series of events”. Thus, option C is incorrect.

- * “*Lasting*” as an adjective is used in context of “having an effect for a long time”. Thus, option D is incorrect.
- * “*Permanent*” as an adjective is used in context of “lasting for long time”.
- * Here in the given sentence, it is used to qualify the noun i.e. “license”. It mentions that speaker, after completing learner’s driving test, is asking for a license that would last for long i.e. not temporary.

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

Thus, the correct sentence will be:

I completed my learner's driving test last week. When am I going to get my permanent license?

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

14. A

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

Ominous= suggesting that something bad is going to happen in the future.

E.g.: He picked up the phone but there was an **ominous** silence at the other end.

Threatening = expressing a threat of harm or violence.

E.g.: I found an extremely **threatening** message on my voicemail.

Promising = showing signs of being good or successful.

Capable = having the ability or qualities necessary for doing something.

Favourable = making people have a good opinion of someone/something.

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

15. C

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

- * *Exhaust* = is the structure of plural verb used in simple present tense.
- * *Exhausts* = is the structure of singular verb used in simple present tense.
- * *Exhausted* = is the second and third form of verb “Exhaust”.
- * *Exhausting* = is the continuous form of verb “Exhaust”

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

- * “*Exhaust*” is the structure of plural verb used in simple present tense. But filler needs third form of verb as an adjective. Thus, option A is incorrect.
- * “*Exhausts*” is the structure of singular verb used in simple present tense. But filler needs third form of verb as an adjective. Thus, option B is incorrect.
- * “*Exhausting*” is the continuous form of verb “Exhaust”. But filler needs third form of verb as an adjective. Thus, option D is incorrect.
- * “*Exhausted*” is the third form of verb “Exhaust”. It is used as an adjective (subject complement) for subject.
- * Here in the given sentence, it is used as a subject complement (adjective) for subject “She”. It is used to mention that the subject was completely exhausted i.e. “very tired” after a long and tiring day.

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

Thus, the correct sentence will be:

After a long and tiring day, Lata said she was completely exhausted.

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

16. B

Sol. Embryology: the scientific study of the development of embryos.

Etymology: the study of the origin and history of words and their meanings.

Entomology: the scientific study of insects.

Epistemology: the part of philosophy that deals with knowledge.

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

17. A

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

Barren= land or soil that is not good enough for plants to grow on it.

E.g.: We saw a **barren** landscape without a scrap of vegetation.

Fertile = land or soil in which plants grow well.

E.g.: Whole tracts of country, once **fertile**, have become arid.

Empty = with no people or things inside.

Vacant = empty

Clear= easy to understand and not confusing.

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

18. C

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

* Underlined part needs correction in structure of verb.

* We use be “going to + base form” for a present situation which points to the future.

For example:

This fence is **going to fall** down soon.

It's ten already. We're **going to be** late.

* In the given sentence, time word “tomorrow” shows that the action of “meet” will happen in future. But we have erroneously used participle form of verb after “going to”. Thus, as per the

structure of “Going to + base form of verb”, base form of verb “meet” should be used in place of participle “meeting”.

* Hence, “**going to meet**” is the correct substitution.

Thus, the correct sentence will be:

The Principal is going to meet the senior classes tomorrow.

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

19. D

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

- * *What* = (determiner) is used to ask for particular information about someone/something
- * *Whichever* = (pronoun) is used to say what feature or quality is important in deciding something.
- * *Whatever* = (pronoun) is used when you are saying that it does not matter what someone does or what happens, because the result will be the same.
- * *Which* = (pronoun) is used to be exact about the thing or things that you mean.

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

- * “*What*” as a determiner is used to ask for particular information about someone/something. Thus, option A is incorrect.
- * “*Whichever*” as a pronoun is used to say what feature or quality is important in deciding something. Thus, option B is incorrect.
- * “*Whatever*” as a pronoun is used when you are saying that it does not matter what someone does or what happens, because the result will be the same. Thus, option C is incorrect.
- * “*Which*” as a pronoun is used to be exact about the thing or things that you mean.
- * Here in the given sentence, it is used to be exact about “voluntary and involuntary moves” i.e. those that are made by us.

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

Thus, the correct sentence will be:

The human brain regulates and coordinates all the voluntary and involuntary moves which we make.

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

20. A

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

* “Information” is an uncountable noun. We use phrase “a piece of” to show the singularity and “much”/“some” to show the plurality. But no “s/es” is added at the end to make the plural form of “information”.

For example:

I have found an interesting **piece of information** in the newspaper.

I am writing to ask for **some information** about courses.

* In the given sentence we have erroneously added “s” in the end of “information” to make its plural form. Moreover, there is no need to show the plurality of “information” because singular helping verb “is” is used in the latter part of the sentence. Thus, singular form of uncountable noun i.e. “information” should be used.

* Hence, “**giving information**” is the correct substitution.

Thus, the correct sentence will be:

Asking for and giving information is an important feature of conversations.

21. C

Sol. The given passage is about **“How author used radio for news and as an alarm clock?”**.

“Come In” as a phrasal verb means to enter a room or building. Thus, option A is wrong.

“Come Of” as a phrasal verb means to be the result of something. Thus, option B is wrong.

“Come Off” as a phrasal verb means to be able to be removed. Thus, option D is wrong.

“Come On” as a phrasal verb means to begin to operate or to start.

In the given sentence, it is used to show the automatic start of radio at 7 o'clock.

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

22. D

Sol. The given passage is about “**How author used radio for news and as an alarm clock?**”.

“Out” as an adverb means away from the inside of a place or thing. Thus, option A is wrong.

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

“At” as a preposition is used to show when something happens. Thus, option C is wrong.

“Wake someone up” as a phrasal verb means to make someone stop sleeping.

In the given sentence, it is used to show that automatic start of radio at 7 o'clock stopped the author from sleeping.

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

23. C

Sol. The given passage is about “**How author used radio for news and as an alarm clock?**”.

“That” as a relative pronoun is used for referring to someone/something that has already been mentioned or is already known about. Thus, option A is wrong.

“What” as a pronoun is used to ask for particular information about someone/something. Thus, option B is wrong.

“Which” as a relative pronoun is used to refer things. Thus, option D is wrong.

“It” as a pronoun is used in the position of subject of a verb when you are talking about time, the date, distance, the weather etc.

In the given sentence, it is used to talk about the time shown by the clock i.e. “ten past seven”.

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

24. B

Sol. The given passage is about “**How author used radio for news and as an alarm clock?**”.

“Heard” is the second form of verb “Hear”. But we need base form of verb after the modal verb. Thus, option A is wrong.

“Listen” means to pay attention to someone/something that you can hear. Thus, option C is wrong.

“Listened” is the second form of verb “Listen”. But we need base form of verb after the modal verb. Thus, option D is wrong.

“Hear” as a verb means to be aware of sounds with your ears.

In the given sentence, it is used to show that author was aware of sounds (of news) coming out of radio. But he was not able to pay attention to those sounds properly as he was in shower.

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

25. B

Sol. The given passage is about **“How author used radio for news and as an alarm clock?”**.

“Captured” means to catch a person or an animal and keep them as a prisoner or shut them in a space that they cannot escape from. Thus, option A is wrong.

“Absconded” means to leave secretly and take with you something that does not belongs to you. Thus, option C is wrong.

“Released” means to let someone come out of a place where they have been kept or stuck and unable to move. Thus, option D is wrong.

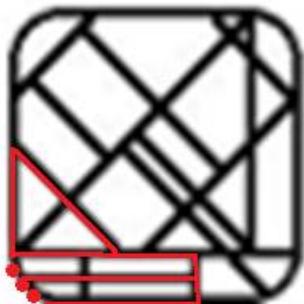
“Escaped” as a verb means to get away from a place where you have been kept as a prisoner or not allowed to leave.

In the given sentence, it is used to show that author heard a news related to an elephant that left the circus where he was kept like a prisoner.

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

26. B

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



Hence, option B is the correct answer.

27. B

Sol. as,

$$4^2 * (4+1) = 16 * 5 = 80$$

similarly,

$$6^2 * (6+1) = 36 * 7 = 252$$

Hence, option B is the correct answer.

28. A

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

as,

$$\text{TYPICAL} = 20 + 25 + 16 + 9 + 3 + 1 + 12 = 86,$$

$$\text{now, } 86 + \text{ number of letters in TYPICAL} = 86 + 7 = 93$$

and

$$\text{FRAME} = 6 + 18 + 1 + 13 + 5 = 43$$

$$\text{now, } 43 + \text{ number of letters in FRAME} = 43 + 5 = 48$$

similarly,

$$\text{SENSOR} = 19 + 5 + 14 + 19 + 15 + 18 = 90$$

$$\text{now, } 90 + \text{ number of letters in SENSOR} = 90 + 6 = 96$$

Hence, option A is the correct answer.

29. C

Sol. Logic: Take corresponding letter code.

Given,

H	E	A	L	T	H
1	3	2	9	6	1

and

E	A	R	T	H
3	2	7	6	1

Therefore,

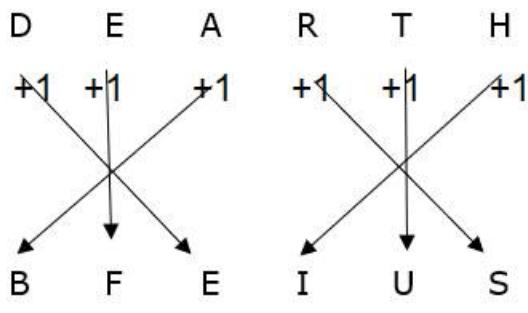
L	A	T	E	R
9	2	6	3	7

Hence, option C is the correct answer.

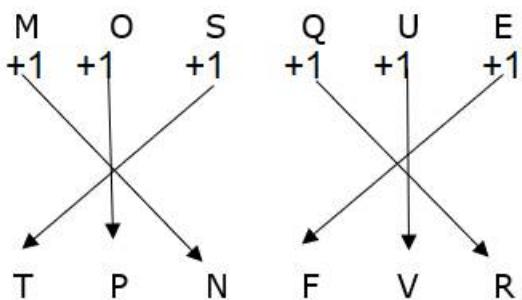
30. C

Sol.

as,



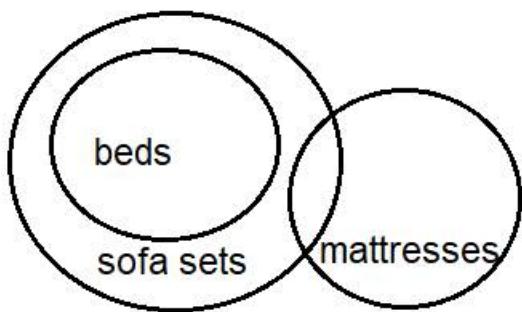
similarly,



Hence, option C is the correct answer.

31. A

Sol. Minimum Possible diagram is-



Conclusions:

- I. Some sofa sets are beds. (It follows because All beds are sofa sets.)
- II. Some mattresses are sofa sets. (It follows because Some sofa sets are mattresses.)

So, both conclusions I and II follow.

Hence, option A is the correct answer.

32. A

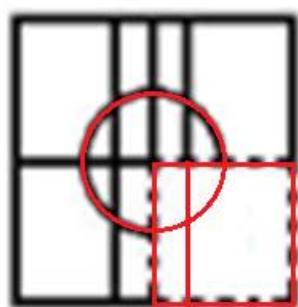
Sol. In the sport of cricket, a nightwatchman is a lower-order batsman who comes in to bat higher up the order than usual near the end of the day's play.

Deuce is the score in a game of tennis when both players have forty points. One player has to win two points one after the other to win the game.

Hence, option A is the correct answer.

33. D

Sol. Complete figure is:



Hence, option D is the correct answer.

34. B

Sol. Logic: Take corresponding letter code.

Given,

U	N	I	T	Y
A	O	O	U	Z

and

P	R	O	U	D
Q	S	U	A	E

Therefore,

D	O	U	B	T
E	U	A	C	U

Hence, option B is the correct answer.

35. B

Sol. $N > G > E \quad \dots (1)$

$$F = E > Q = R \quad \dots (2)$$

from (1) and (2),

$$N > G > F = E > Q = R$$

A. $G > Q$ (true because $G > F = E > Q$)

B. $F < R$ (false because $F = E > Q = R$)

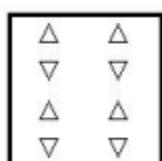
C. $N > E$ (true because $N > G > F = E$)

D. $F > Q$ (true because $F = E > Q$)

Hence, option B is the correct answer.

36. D

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



Hence, option D is the correct answer.

37. C

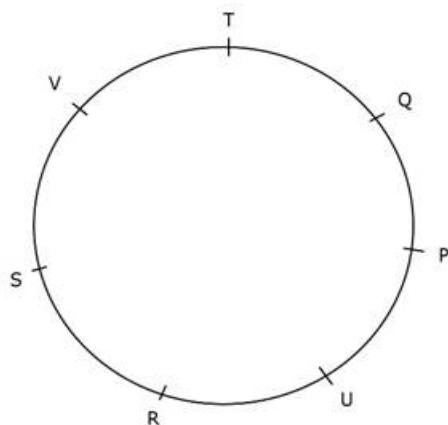
Sol. In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect it results from reflection of substances such as a mirror or water.



Hence, option C is the correct answer.

38. D

Sol. The sitting arrangement according to the question is as follows –



Thus, V is sitting between S and P.

Hence, option D is the correct answer.

39. B

Sol. By checking option A:

$$19 * 24 * 8 * 4 * 6 * 40$$

After interchanging:

$$19 \times 24 \div 8 + 4 - 6 = 40$$

$$\text{or, } 19 \times 3 - 2 = 40$$

$$\text{or, } 57 - 2 = 40$$

$$\text{or, } 55 = 40$$

so, its not correct option.

By checking option B:

$$19 * 24 * 8 * 4 * 6 * 40$$

After interchanging:

$$19 - 24 \div 8 + 4 \times 6 = 40$$

$$\text{or, } 19 - 3 + 24 = 40$$

$$\text{or, } 40=40$$

so, its correct option.

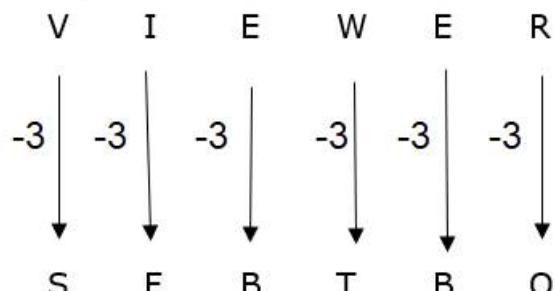
as, we found the correct answer, so no need to check more options.

Hence, option B is the correct answer.

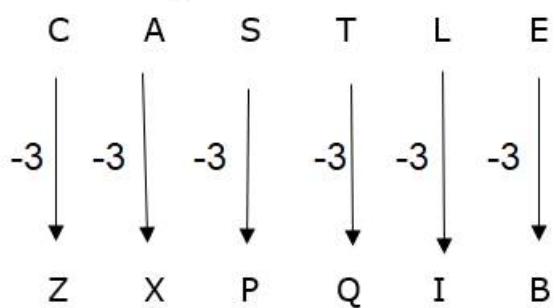
40. A

Sol.

as,



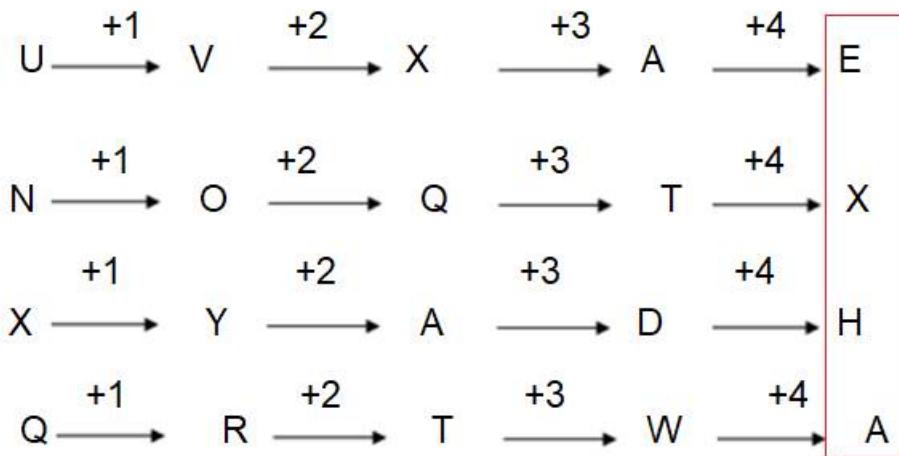
similarly,



Hence, option A is the correct answer.

41. C

Sol. pattern is:



Hence, option C is the correct answer.

42. D

Sol. pattern is:

$$60 \times 2 = 120$$

$$120 + 5 = 125$$

$$125 \times 2 = 250$$

$$250 + 5 = 255$$

$$\mathbf{255 \times 2 = 510}$$

$$510 + 5 = 515$$

Hence, option D is the correct answer.

43. B

Sol. Kripal is to the immediate left of Ashraf.

Kripal Ashraf

Vinayak is to the immediate left of Arpan.

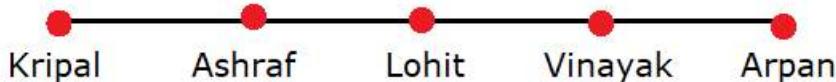
Vinayak Arpan

Lohit is second to the left of Arpan.

Lohit _ Arpan

Kripal is sitting at one of the corners.

So, final arrangement is:



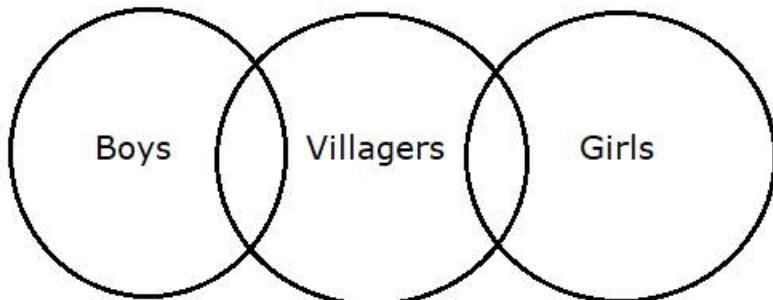
Therefore, Lohit is sitting to the immediate right of Ashraf.

Hence, option B is the correct answer.

44. B

Sol. Boys and Girls both can be villagers.

So, the best representation is:



Hence, option B is the correct answer.

45. A

Sol. pattern is:

Given series contains two series.

Series 1: 60, 64, 68, 72

Pattern is:

$$60+4=64$$

$$64+4=68$$

$$68+4=72$$

Series 2: 80, 70, 60, 50

Pattern is:

$$80-10=70$$

$$70-10=60$$

$$60-10=50$$

Hence, option A is the correct answer.

46. A

Sol. **By checking option A:**

$$39 \times 6 + 27 \div 3 - 52 = 123$$

After interchanging:

$$27 \times 6 + 39 \div 3 - 52 = 123$$

$$\text{or, } 162 + 13 - 52 = 123$$

$$\text{or, } 123=123$$

so, its correct option.

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

Hence, option A is the correct answer.

47. B

Sol. As, Biology is a part of Science.

Similarly, Political Science is a part of Social Science.

Hence, option B is the correct answer.

48. C

Sol. Row 1:

$$(8*2)*14=224$$

Row 2:

$$(11*2)*15=330$$

Row 3:

$$(9*2)*12=216$$

Hence, Option C is the correct answer.

49. D

Sol.

1	2
5	
4	3

Moving order of  is: 1 5 3 5 1

Moving order of  is: 2 4 2 4 2

 gets flipped horizontally in each step.

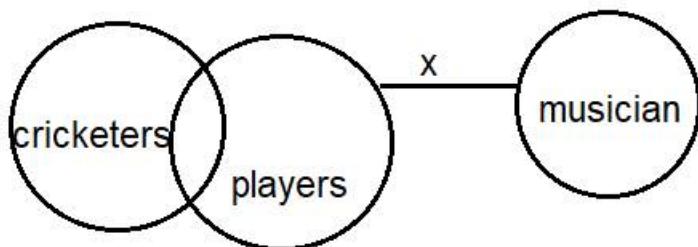
so, the next figure is-



Hence, Option D is the correct answer.

50. D

Sol. Minimum Possible diagram is-



Conclusions:

- I. No cricketer is a musician. (It does not follow as Some cricketers are players and No player is a musician.)
- II. Some players are cricketers. (It follows as Some cricketers are players.)
- III. No musician is a player. (It follows as No player is a musician.)

So, only conclusions II and III follow.

Hence, option D is the correct answer.

51. C

Sol. Given:

A shopkeeper mixed two kinds of rice in the ratio 1 : 5

Cost of type 1 rice = Rs. 65 per kg.

And cost of type 2 rice = Rs. 95 per kg.

$$\text{Cost of mixed rice} = \frac{65 \times 1}{6} + \frac{95 \times 5}{6}$$

$$\frac{65 + 475}{6} = \frac{540}{6} = \text{Rs. 90 per kg.}$$

Gain percentage of the shopkeeper

$$\begin{aligned} &= \frac{SP - CP}{CP} \times 100 = \frac{99 - 90}{90} \times 100 \\ &= \frac{9}{90} \times 100 = 10\% \end{aligned}$$

Hence, option C is the correct answer.

52. C

Sol. Let the greater number be x .

Then, smaller number = $(x - 12)$

Now, we know that

HCF of two numbers \times LCM of two numbers = Multiplication of two numbers

$$\Rightarrow 6 \times 90 = (x) \times (x - 12)$$

$$\Rightarrow 540 = x^2 - 12x$$

$$\Rightarrow x^2 - 30x + 18x - 540 = 0$$

$$\Rightarrow x(x - 30) + 18(x - 30) = 0$$

$$\Rightarrow (x - 30)(x + 18) = 0$$

$$\Rightarrow x - 30 = 0 \text{ or } x + 18 = 0$$

$$\Rightarrow x = 30 \text{ or } x = -18 \text{ (not possible)}$$

Therefore, the greater number is 30.

Hence, option C is the correct answer.

53. A

Sol. Given:

Average age of Akhil and Sunita = 51 years,

Average age of Sunita and Veena = 31 years and

Average age of Veena and Akhil = 33 years

Now, total age of Akhil and Sunita = $51 \times 2 = 102$ years,

Total age of Sunita and Veena = $31 \times 2 = 62$ years and

Total age of Veena and Akhil = $33 \times 2 = 66$ years

Now, total age of Akhil, Sunita and Veena

$$= \frac{102 + 62 + 66}{2} = \frac{230}{2} = 115 \text{ years}$$

Therefore, age of Veena = Total age of Akhil, Sunita and Veena – Total age of Akhil and Sunita
 $= 115 - 102 = 13$ years

Hence, option A is the correct answer.

54. D

Sol. Given:

Length of a train = 700 m, Time taken to cross a bridge = 72 seconds

$$\text{Speed of the train} = 60 \text{ km/h} = 60 \times \frac{5}{18} \text{ m/s} = \frac{50}{3} \text{ m/s}$$

Total distance covered by train in 72 seconds = Speed \times Time

$$= \frac{50}{3} \times 72 = 1200 \text{ m}$$

Therefore, length of the bridge = Total distance – Length of the train
 $= 1200 - 700 = 500$ m

Hence, option D is the correct answer.

55. A

Sol. Given:

Cost price of computer = Rs. 42000

Cost price of printer = Rs. 3000

Selling price of both the items together = Rs. 51750

Now, cost price of both the items together = $42000 + 3000 = \text{Rs. } 45000$

$$\text{Profit (in \%)} = \frac{\text{SP} - \text{CP}}{\text{CP}} \times 100$$

$$= \frac{51750 - 45000}{45000} \times 100 = \frac{6750}{450}$$

$$= 15\%$$

Hence, option A is the correct answer.

56. C

Sol.

$$4\frac{1}{3} + \left[7\frac{2}{3} - \frac{4}{3} \left(\frac{25}{3} - \frac{1}{6} - \frac{2}{3} \right) \right]$$

$$= \frac{13}{3} + \left[\frac{23}{3} - \frac{4}{3} \left(\frac{50 - 1 - 4}{6} \right) \right]$$

$$= \frac{13}{3} + \left[\frac{23}{3} - \frac{4}{3} \left(\frac{45}{6} \right) \right]$$

$$= \frac{13}{3} + \left[\frac{23}{3} - 10 \right]$$

$$= \frac{13}{3} + \left[\frac{23 - 30}{3} \right]$$

$$= \frac{13}{3} - \frac{7}{3}$$

$$= \frac{13 - 7}{3} = \frac{6}{3}$$

$$= 2$$

Hence, option C is the correct answer.

57. B

Sol. Given:

Outer radius of a circular park (r_o) = 23 m

And a path inside it of 4 m.

Therefore, Inner radius of the park (r_i) = $23 - 4 = 19$ m

$$\text{Area of path} = \pi(r_o^2 - r_i^2)$$

$$= \frac{22}{7}(23^2 - 19^2)$$

$$= \frac{22}{7}(529 - 361)$$

$$= \frac{22}{7} \times 168$$

$$= 528 \text{ m}^2$$

Cost of paving the path = Area of the path × Rate of paving

$$= 528 \times 500 = \text{Rs. } 264000$$

Hence, option B is the correct answer.

58. D

Sol. Let the marked price be Rs. $100x$.

Then, cost price for the bookseller

$$= (100x) - (100x) \times 25\%$$

$$= 100x - 25x = \text{Rs. } 75x$$

$$\text{Sale price to gain } 20\% = 75x + (75x) \times 20\% = 75x + 15x = \text{Rs. } 90x$$

$$\text{Therefore, discount (in \%)} = \left(\frac{100x - 90x}{100x} \right) \times 100 = \left(\frac{10x}{100x} \right) \times 100$$

$$= 10\%$$

Hence, option D is the correct answer.

59. C

Sol. Amount = Rs. 10000, Time = 2 years and Interest rate = 5% p.a. CI and 5% p.a. SI

$$\text{Compound Interest} = [\text{Amount} \times (1 + R)^T] - \text{Amount}$$

$$= [10000 \times (1 + 5\%)^2] - 10000$$

$$= [10000 \times (1.05)^2] - 10000$$

$$= (10000 \times 1.1025) - 10000$$

$$= 11025 - 10000 = \text{Rs. } 1025$$

$$\text{Simple Interest} = \text{Amount} \times \text{Rate} \times \text{Time}$$

$$= 10000 \times 5\% \times 2 = \text{Rs. } 1000$$

$$\text{Money, Kanika would have saved if she had taken the loan on simple interest} = \text{CI} - \text{SI} = 1025 - 1000 = \text{Rs. } 25$$

Hence, option C is the correct answer.

60. C

Sol. Let the shopkeeper placed order for $3x$ t-shirts.

Then, no. of shirts = $(3x) \times \frac{2}{3} = 2x$

And no. of jeans = $(3x) \times \frac{1}{3} = x$

Now, total value of order = Rs. 46800 (given)

$$\Rightarrow 500 \times (x) + 350 \times (2x) + 200 \times (3x) = 46800$$

$$\Rightarrow 500x + 700x + 600x = 46800$$

$$\Rightarrow 1800x = 46800$$

$$\Rightarrow x = 46800/1800 = 26$$

Therefore, he placed order for 78 (3×26) t-shirts.

Hence, option C is the correct answer.

61. C

Sol. Data:

3, 21, 10, 7, 6, 9, $(k + 6)$, 15, 20, 16

Now, arrange it

3, 6, 7, 9, 10, $(k + 6)$, 15, 16, 20, 21

Total no. of terms = 10

Median will be average of 5th ($10/2$) and 6th $\left(\frac{10}{2} + 1\right)$ term.

Since median is 11, the term $(k + 6)$ must be in middle of the series.

$$\text{Therefore, } \frac{(10 + k + 6)}{2} = 11$$

$$\Rightarrow k + 16 = 22$$

$$\Rightarrow k = 22 - 16 = 6$$

Hence, option C is the correct answer.

62. C

Sol. First multiple (a) = 5

$$\text{Difference (d)} = 5$$

$$\text{No. of terms} = 10$$

$$\text{Sum of first 10 terms (S}_{10}\text{)} = \frac{n}{2} [2a + (n - 1)d]$$

$$= \frac{10}{2} [2 \times 5 + (10 - 1) \times 5]$$

$$= 5 [10 + 9 \times 5]$$

$$= 5 (10 + 45)$$

$$= 5 \times 55 = 275$$

Therefore, average of first 10 multiples of 5

$$= \frac{\text{Sum of terms}}{\text{Number of terms}} = \frac{275}{10} = 27.5$$

Hence, option C is the correct answer.

63. A

Sol. Remaining quantity of juice after sale = $19 - 2.5 = 16.5$ litres

$$\text{Quantity of giloy in remaining juice} = 16.5 \times \frac{2}{11} = 3 \text{ litres}$$

Ratio of giloy and water after addition of some water = 1 : 5

$$\text{Sum of ratio} = 1 + 5 = 6$$

Total quantity after addition of water = $3 \times \frac{6}{1} = 18$ litres

Therefore, quantity of water added = $18 - 16.5 = 1.5$ litres

$$= 1\frac{1}{2} \text{ litres}$$

Hence, option A is the correct answer.

64. B

Sol. As we can find in the bar graph, students of section A got better marks in English, Maths, Science and Social Science compared to that of section B.

Therefore, in 4 subjects, the students of section A have shown better result.

Hence, option B is the correct answer.

65. A

Sol. Let the length of rectangle be x units and width be y units.

Therefore, area of original rectangle = Length \times Width

$$= xy \text{ unit}^2$$

Now, increased length = $x + (x) \times 12\% = x + 0.12x = 1.12x$ units

And decreased width = $y - (y) \times 10\% = y + 0.10y = 0.90y$ units

Area of changes rectangle = $(1.12x) \times (0.90y) = 1.008xy$ units

Ratio of the areas of the original rectangle and the changed rectangle

$$xy : 1.008xy$$

$$126 : 126$$

Hence, option A is the correct answer.

66. D

Sol. Increase in the production by company A from 1998 to 1999

$$= 57 - 34 = 23 \text{ lakh metres}$$

Increase in the production by company C from 1996 to 1997

$$= 62 - 40 = 22 \text{ lakh metres}$$

Difference between increase in the production by company A from 1998 to 1999 and that by company C from 1996 to 1997

$$= 23 - 22 = 1 \text{ lakh metres}$$

Hence, option D is the correct answer.

67. C

Sol. Central angle of the amount spent on Misc. and House Rent

$$= 360^\circ \times \frac{(11\% + 16\%)}{100\%} = 360^\circ \times \frac{27}{100} = 97.2^\circ$$

Central angle of the amount spent on Household Expenditure

$$= 360^\circ \times \frac{17\%}{100\%} = 61.2^\circ$$

Therefore, the central angle of the amount spent on Misc. and House Rent taken together is more than that on Household Expenditure by 36° . ($97.2^\circ - 61.2^\circ$)

Hence, option C is the correct answer.

68. A

Sol. Let the total distance be x km.

Then, as per question,

Total time taken = 1 hour 24 minutes

$$\Rightarrow \frac{\frac{2}{3}x}{52} + \frac{\frac{1}{3}x}{65} = 1 + \frac{24}{60}$$

$$\Rightarrow \frac{2x}{3 \times 52} + \frac{x}{3 \times 65} = 1 + \frac{2}{5}$$

$$\Rightarrow \frac{10x + 4x}{780} = \frac{5 + 2}{5}$$

$$\Rightarrow \frac{14x}{780} = \frac{7}{5}$$

$$\Rightarrow \frac{2x}{780} = \frac{1}{5}$$

$$\Rightarrow 10x = 780$$

$$\Rightarrow x = 780/10 = 78$$

Therefore, the total distance is 78 km.

Hence, option A is the correct answer.

69. C

Sol. Given:

A toy with hemispherical base with radius 3.5 cm and a cone, with height same as radius, surmounting it.

Therefore, radius of the cone = radius of hemisphere = 3.5 cm

And height of the cone = radius of the cone = 3.5 cm

Now, volume of toy = volume of hemisphere + volume of the cone

$$= \frac{2}{3}\pi r^3 + \frac{1}{3}\pi r^2 h$$

$$= \frac{2}{3} \pi (3.5)^3 + \frac{1}{3} \pi (3.5)^2 \times 3.5$$

$$= \frac{2}{3} \pi (3.5)^3 + \frac{1}{3} \pi (3.5)^3$$

$$= \left(\frac{2}{3} + \frac{1}{3} \right) \times \frac{22}{7} \times (3.5)^3$$

$$= \left(\frac{2+1}{3} \right) \times 22 \times 0.5 \times (3.5)^3$$

$$= 11 \times 12.25$$

$$= 134.75 \text{ cm}^3$$

$$= 134\frac{3}{4} \text{ cm}^3$$

Hence, option C is the correct answer.

70. D

Sol. Given:

Amount = Rs. 50000 each, Time = 2 years and Interest rate in first bank = 11% p.a. SI and in second bank = 10% p.a. CI

Interest from first bank = Amount \times Rate \times Time

$$= 50000 \times 11\% \times 2 = \text{Rs. } 11000$$

Interest from second bank = [Amount \times (1 + R)^T] – Amount

$$= [50000 \times (1 + 10\%)^2] - 50000$$

$$= [50000 \times (1.1)^2] - 50000$$

$$= (50000 \times 1.21) - 50000$$

$$= 60500 - 50000 = \text{Rs. } 10500$$

Total interest from both the banks = $11000 + 10500 = \text{Rs. } 21500$

Hence, option D is the correct answer.

71. B

Sol. Let the number of voters enrolled in the voter list be x .

Then, number of actual vote cast = $(x) - (x) \times 16\% = x - 0.16x = 0.84x$

$$\begin{aligned}\text{Number of valid votes} &= (0.84x) - (0.84x) \times 10\% = 0.84x - 0.084x \\ &= 0.756x\end{aligned}$$

Number of votes the successful candidate got = $(0.756x) \times 60\% = 0.4536x$

Number of votes the other candidate got = $0.756x - 0.4536x = 0.3024x$

Difference between votes of both the candidates (winning margin) = 567

$$\Rightarrow 0.4536x - 0.3024x = 567$$

$$\Rightarrow 0.1512x = 567$$

$$\Rightarrow x = 567/0.1512 = 3750$$

Therefore, the number of voters enrolled in the voter list is 3750.

Hence, option B is the correct answer.

72. B

Sol. Given:

Amount = Rs. 2820

Ratio, to be divided = 3 : 4 : 5

Sum of ratios = $3 + 4 + 5 = 12$

$$\text{Actual ratio (divided by mistake)} = \frac{\frac{1}{3} : \frac{1}{4} : \frac{1}{5}}{60} = 20 : 15 : 12$$

Sum of ratios = $20 + 15 + 12 = 47$

Amount (A should have in real) = $2820 \times \frac{3}{47} = \text{Rs. } 705$

Amount (A got) = $2820 \times \frac{20}{47} = \text{Rs. } 1200$

Gain of A by error = $1200 - 705 = \text{Rs. } 495$

Hence, option B is the correct answer.

73. C

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

Then, as per question, the total work will be same in both the situations

$$(6m + 8w) \times 10 = (3m + 13w) \times 10$$

$$\Rightarrow 6m - 3m = 13w - 8w$$

$$\Rightarrow 3m = 5w$$

$$\text{Therefore, total work} = (3m + 13w) \times 10$$

$$= (5w + 13w) \times 10$$

$$= 180w$$

Now, time taken by 6 women to finish the same work

$$= 180w/6w = 30 \text{ days}$$

Hence, option C is the correct answer.

74. A

Sol. Let the total work be $12x$ units.

Then, efficiency of a man = $12x/6 = 2x$ units/day

And efficiency of a woman = $12x/12 = x$ units/day

Combined efficiency of a man and a woman working together

$$= 2x + x = 3x \text{ units/day}$$

Time taken by a man and a woman working together to do the same work

$$= 12x/3x = 4 \text{ days.}$$

Hence, option A is the correct answer.

75. C

Sol.

$$\frac{1 \div \frac{3}{7} \text{ of } (6 + 8 \times 3 - 2) + \left[\frac{1}{5} \div \frac{7}{25} - \left\{ \frac{3}{7} + \frac{8}{14} \right\} \right]}{18 \div 10 - 4 + 32 \div (4 + 10 \div 2 - 1)}$$

$$= \frac{1 \div \frac{3}{7} \text{ of } (6 + 8 \times 1) + \left[\frac{1}{5} \div \frac{7}{25} - \left\{ \frac{6+8}{14} \right\} \right]}{18 \div 6 + 32 \div (4 + 5 - 1)}$$

$$= \frac{1 \div \frac{3}{7} \text{ of } (6 + 8) + \left[\frac{1}{5} \times \frac{25}{7} - \left\{ \frac{14}{14} \right\} \right]}{3 + 32 \div 8}$$

$$= \frac{1 \div \frac{3}{7} \text{ of } 14 + \left[\frac{5}{7} - 1 \right]}{3 + 4}$$

$$= \frac{1 \div 6 + \left[\frac{5-7}{7} \right]}{7}$$

$$= \frac{\frac{1}{6} - \frac{2}{7}}{7}$$

$$= \frac{7-12}{42} \times \frac{1}{7} = \frac{-5}{294}$$

Hence, option C is the correct answer.

76. D

- Sol. • The 'Banganga' Festival is associated with Maharashtra.
• It is a two-day music festival celebrated annually in the month of January in Malabar Hills.
• It is conducted jointly by Maharashtra Tourism Development Corporation and Indian Heritage Society Mumbai.
• It also intends to promote awareness regarding the preservation of the historical Banganga tank and its environment.
• It is one of the most awaited festivals in Mumbai with millions of music lovers flocking the Malabar Hills.
• It is one of the most renowned music festivals in Maharashtra.

77. B

- Sol. • The SI unit for frequency is hertz.
• Frequency is the number of occurrences of a repeating event per unit of time.
• It describes the number of waves that pass a fixed place in a given amount of time.
• Ohm is the SI derived unit used to measure the electrical resistance of a material or an electrical device.
• The volt is the derived unit for electric potential, electric potential difference and electromotive force.
• The joule is the SI unit of energy in electronics and general scientific applications.

78. D

- Sol. • The British Government announce Morley-Minto Reforms in India in 1909.
• It was instituted to placate the Moderates and introduce separate electorates on the basis of religion.
• The act was formulated by John Morley, secretary of state for India.

- It was introduced to increase the representation of the natives in the Government of British India.
- The act enlarged the size of the legislative council both Central and Provincial.
- Lord Minto came to be known as the Father of Communal Electorate in India.

79. D

Sol. • National Handloom Day is celebrated on 7th August.

- It is a day that also recognizes the Swadeshi Movement which was launched on the same date in 1905.
- It is observed annually to honour the handloom weavers in the country and also highlight India's handloom industry.
- August 23 is observed as International Day for the Remembrance of the Slave Trade & its Abolition.
- Engineer's Day is celebrated in India on 15 September every year.

80. B

Sol. • The full form of LED is Light Emitting Diode.

- It is a semiconductor light source that emits light when current flows through it.
- It is a specially doped diode and made up of a special type of semiconductor.
- It includes two terminals namely the anode and the cathode.
- The construction of LED is very simple because it is designed through the deposition of three semiconductor material layers over a substrate.

81. C

Sol. • Article 343(1) of the Constitution of India states that Hindi in the Devanagari script shall be the official language of the Union.

• Article 343(3) vests power in the Parliament to make a law to continue the use of the English language for official purposes even after 25 January 1965.

- The **Devanagari script** represents the **sounds of the Hindi language with remarkable consistency**.
- The **Eighth Schedule** to the Constitution of India **contains a list of 22 scheduled languages**.
- It includes **Language of the Union, Regional Languages, Language of the judiciary and texts of law and special directives**.

82. C

- Sol.
- **Pritzker Prize** is commonly known as the Nobel Prize given for the field of **Architecture**.
 - It is said to be **awarded irrespective of nationality, race, creed, or ideology**.
 - It is **an award presented annually to honour a living architect or architects whose built work demonstrates a combination of those qualities of talent, vision and commitment**.
 - It is **funded by the Pritzker family and sponsored by the Hyatt Foundation**.
 - It was awarded for excellence in architecture, given annually since 1979.

83. B

- Sol.
- **Bhojtal**, formerly known as **Upper Lake**, is situated in **Madhya Pradesh**.
 - It is a **large lake that lies on the western side of the capital city of Madhya Pradesh**.
 - It is a **major source of drinking water for the residents of the city, serving around 40% of the residents**.
 - It is **said to have been built by the Paramara Raja Bhoj during his tenure as the king of Malwa**.
 - The lake was **created by constructing an earthen dam across the Kolans River**.
 - It has an **area of 31 km²** and **drains a catchment or watershed of 361 km²**.

84. C

- Sol.
- **Jawaharlal Nehru Manipur Dance Academy** is located in **Imphal**.
 - It is a **constituent unit of the Sangeet Natak Akademi, New Delhi**.

- It is the **premier institution for the teaching of Manipuri Dance and Music & allied subjects like Thang-Ta.**
- **Manipur** is known for its **rich culture and tradition inherited from forefathers** and **Sports.**
- **Hyderabad** is the **sixth-most populous metropolitan area in India** and the **fifth-largest urban economy in India.**
- **Bengaluru** is the **third most populous city and fifth-most populous urban agglomeration in India.**

85. B

- Sol.
- **The President can appoint the Chief Election Commissioner of India.**
 - **The Chief Election Commissioner of India** heads the **Election Commission of India.**
 - It is **usually a member of the Indian Civil Service** and **mostly from the Indian Administrative Service.**
 - It is **very difficult to remove the authority of the Chief Election Commissioner once appointed by the president.**
 - The **vice president of India** is the **deputy to the head of state of the Republic of India.**
 - It is the **second-highest constitutional office after the president.**

86. B

- Sol.
- **Odisha became the first state to have a Tsunami Ready village as of August 2020.**
 - **India has become the first country in the Indian Ocean region to become home to Tsunami-Ready villages in Odisha.**
 - The two coastal villages are **Venkatraipur village** and **Noliasahi village** recognised as **Tsunami Ready.**
 - The **certificate of recognition** will be **handed over to the communities of Venkatraipur and Noliasahi in a virtual event scheduled to be held on August 7.**
 - **Odisha** is known for its **rich history & culture** and has abundant natural resources and a large coastline.

87. D

- Sol. • **Barium nitrate is used in signal flares and fireworks that burn in bright green colour.**
• It is also called **Barium dinitrate, Nitrobarite or Barium salt.**
• It is an **inorganic compound with the chemical formula Ba(NO₃)₂.**
• It is **colourless, toxic & water-soluble** and **salt of barium and the nitrate ion.**
• It is **used in the manufacture of special glasses** and for **green-fire in pyrotechnics.**
• It is **widely used in defence applications** and is a **precursor material for barium oxide.**

88. B

- Sol. • **A massive employment-cum-rural public works campaign named 'Garib Kalyan Rojgar Abhiyaan' (GKRA) was launched by the Government of India in June 2020 to empower and provide livelihood opportunities to migrant workers.**
• It is an **initiative to tackle the impact of COVID-19 on shramik workers in India.**
• It is a **rural public works scheme** that was **launched on 20 June 2020** with **initial funding of ₹50,000 crores.**
• It will be **operational for a period of 125 days, commencing on 20th June 2020.**
• The **Abhiyaan** will be a **coordinated effort between 12 different Ministries/Departments.**

89. B

- Sol. • **The Export-Import Bank of India extended a \$250 million line of credit for improving power supply quality in Mozambique.**
• It is **endowed with rich and extensive natural resources.**
• The **capital and largest city of Mozambique is Maputo.**
• Sri Lanka is an **island country in South Asia** and shares a **maritime border with India and the Maldives.**
• Bangladesh is the **eighth-most populous country in the world** and one of the most densely populated countries in the world.
• Nepal is a **landlocked, multiethnic, multilingual, multi-religious country in South Asia.**

90. C

- Sol. • The fiscal policy helps the government of a country to control the flow of personal expenditure.
- It is the use of government spending and taxation to influence the economy.
 - It is based on the theories of the British economist John Maynard Keynes.
 - Equity markets are meeting points for issuers and buyers of stocks in a market economy.
 - Angel investors are wealthy private investors focused on financing small business ventures in exchange for equity.

91. B

- Sol. • Swachh Bharat Mission was launched across India on 2 October 2014 by the Ministry of Drinking Water and Sanitation for rural areas.
- It is a country-wide campaign initiated by the Government of India in 2014 to eliminate open defecation and improve solid waste management.
 - It is a restructured version of the Nirmal Bharat Abhiyan launched in 2009 that failed to achieve its intended targets.
 - Smart Cities Mission is an urban renewal and retrofitting programme launched by the Government of India to develop smart cities and make them citizen-friendly.
 - Pradhan Mantri Jan Vikas Karyakram is a Scheme designed to address the development deficits of the identified Minority Concentration Areas.

92. B

- Sol. • Paro Anand is the author of 'Being Gandhi'.
- He is an Indian author of books for children, young adults and adults including novels, short stories and plays.
 - Being Gandhi is a novel that explores, not Gandhi the man or his life as a leader, but really the Gandhian way that must remain relevant to us.
 - Ashis Ray was the only Asian ball-by-ball commentator on the 1983 World Cup.

- Beyond 2020: 25 Happening Careers in Accounting and Finance is a famous Book by V Pattabhi Ram.

93. D

- Sol.
- Major Dhyan Chand is known as the 'Wizard of Hockey.'
 - He was widely regarded as one of the greatest field hockey players in history.
 - He was known for his extraordinary ball control and goal-scoring feats.
 - Mohammed Shahid is considered one of India's best to have played the game and was known for his dribbling skills.
 - Balbir Singh is regarded as one of the greatest hockey players of all time, a modern-day Dhyan Chand.
 - He is widely regarded as the sport's greatest ever centre-forward.

94. C

- Sol.
- World Nature Conservation Day is observed on 28th July.
 - It aims to create awareness about the need to preserve the environment and natural resources in order to keep the world healthy.
 - It acknowledges that a healthy environment is a foundation for a stable and healthy society.
 - International Traffic Light Day is celebrated on 5th August.
 - World Malala day is observed on 12 July.
 - National Creativity Day and National Mint Julep Day are observed on 30th may.

95. C

- Sol.
- Sri Lanka was discovered by the Portuguese in 1505.
 - It is an island country in South Asia and it lies in the Indian Ocean.
 - It is a multinational state, home to diverse cultures, languages, and ethnicities.
 - It is the highest-ranked South Asian nation on the Human Development Index.

- The Portuguese were the dominating political power from about 1505 to 1658 in Sri Lanka.
- It is separated from the Indian subcontinent by the Gulf of Mannar and the Palk Strait.

96. C

Sol. • Suyash Jadhav won the Arjuna Award for Para-Swimming at the National Sports Awards, 2020.

- He is an Indian Para swimmer competing in the S7 category.
- He is the only Indian Para swimmer to have achieved the 'A' qualifying mark for the 2016 Paralympics in Rio.
- The Arjuna Award is the second-highest sporting honour in India.
- It is known as Arjuna Awards for Outstanding Performance in Sports and Games.
- Mariyappan T is India's first Paralympian gold medalist since 2004.

97. D

Sol. • The Congress Party led by Indira Gandhi gave the slogan of 'Garibi Hatao' ('Remove poverty') in the Lok Sabha elections in 1971.

• Garibi Hatao Desh Bachao was the theme and slogan of Indira Gandhi's 1971 election campaign.

• The Congress Party is a political party in India with widespread roots.

• It was the first modern nationalist movement to emerge in the British Empire in Asia and Africa.

• Lok Sabha elections in 1971 were the fifth general elections since independence in 1947.

98. D

Sol. • Avani Chaturvedi is one of the first three Indian female fighter pilots who received the 'Nari Shakti Puraskar 2019' in March 2020.

- She became the **first Indian woman pilot to take a solo flight in a MiG-21**.
- The **Nari Shakti Puraskar** is an annual award given by the **Ministry of Women and Child Development of the Government of India**.
- It is the **highest civilian honour for women in India** and is **presented by the president of India on International Women's Day**.
- **Seema Rao** is popularly known as **Wonder Woman of India** in the Indian media.

99. D

Sol. • **Buddhism is the main religion of Myanmar.**

- It is **one of the world's largest religions and originated 2,500 years ago in India**.
- It is the **world's fourth-largest religion with over 520 million followers**.
- **Christianity** is an **Abrahamic monotheistic religion based on the life and teachings of Jesus of Nazareth**.
- It is the **world's largest religion, with about 2.5 billion followers**.
- **Jainism** is one of the **world's oldest religions in practice to this day**.
- **Islam** is the **world's second-largest religion with more than two billion followers or 24.9% of the world's population**.

100. A

Sol. • **The office of the first Accountant-General was established in India in 1858.**

- **CAG** is an **independent authority under the Constitution of India**.
- He is the **head of the Indian Audit & account department** and the **chief Guardian of the Public purse**.
- He is **ineligible to hold any office, either under the Government of India or of any state, once he retires/ resigns as a CAG**.
- He audits **all expenditures from the Contingency Fund of India and the Public Account of India**.

Mock Test Solutions in Hindi

Questions

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

If you damage the property of others, you are under a legal _____ to pay for the repairs.

- | | |
|----------------|--------------------|
| A. obligation | B. acknowledgement |
| C. requirement | D. appreciation |

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

Make no bones about something

- | | |
|--|--------------------------------------|
| A. Insist on buying only boneless mutton | B. Be frank and open about something |
| C. Be fussy about bones in one's soup | D. Take care of one's health |

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

To take for granted

- | | |
|---|---|
| A. To get a scholarship and assignment easily | B. To apply for a loan with low rates of interest |
| C. To accept without question or objection | D. To accept a sponsorship without much fuss |

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

LOYALTY

- | | |
|------------|-----------------|
| A. hatred | B. faithfulness |
| C. dislike | D. pleasure |

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'.

While driving down, Girish having to apply for official permission to cross the two states.

- | | |
|-----------------------------|-----------------|
| A. have to apply | B. had to apply |
| C. No substitution required | D. had applying |

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

HOPE

A. promise

B. faith

C. trust

D. despair

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

A person who lives a solitary life and tends to avoid other people

A. Vagabond

B. Recluse

C. Guru

D. Saint

8. Select the INCORRECTLY spelt word.

A. objective

B. opportunity

C. explaination

D. contextual

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

By the way, will you taught me how to speak in English?

A. in English

B. will you taught me

C. how to speak

D. By the way

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

Mani will carry the bundle of clothes in a bucket to dry them out in the sun every day.

A. carries

B. No substitution required

C. carry

D. have carried

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

As soon the ceremony was over, the champions would walk in a majestic procession.

A. As soon the ceremony was over

B. in a majestic procession

C. would walk

D. the champions

12. Select the INCORRECTLY spelt word.

A. refrigerator

B. talevision

C. machine

D. vacuum-cleaner

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

I completed my learner's driving test last week. When am I going to get my _____ license?

A. constant

B. permanent

OMINOUS

- | | |
|----------------|---------------|
| A. threatening | B. promising |
| C. capable | D. favourable |

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

After a long and tiring day, Lata said she was completely _____.

- A. exhaust
 - B. exhausts
 - C. exhausted
 - D. exhausting

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

The study of the origin and meanings of words

- | | |
|---------------|-----------------|
| A. Embryology | B. Etymology |
| C. Entomology | D. Epistemology |

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

BARREN

- A. fertile
 - B. empty
 - C. vacant
 - D. clear

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

The Principal is going to meeting the senior classes tomorrow.

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

The human brain regulates and coordinates all the voluntary and involuntary moves _____ we make.

- | | |
|-------------|--------------|
| A. what | B. whichever |
| C. whatever | D. which |

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

Asking for and giving informations is an important feature of conversations.

- A. giving informations
 - B. feature of conversations
 - C. is an important
 - D. Asking for and

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.

The radio was already on. The radio comes (###Q1###) _____ automatically at 7 o'clock to wake me (###Q2###) _____. I looked at the clock. (###Q3###) _____ was already ten past seven. I had to get up quickly. I went into the shower, and I could (###Q4###) _____ the news on the radio. I couldn't hear it very well, but there was a story on the news about an elephant that had (###Q5###) _____ from a local circus.

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

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

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

- A. That
 - B. What
 - C. It
 - D. Which

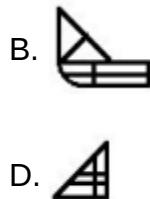
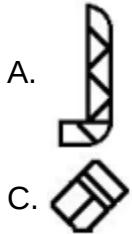
24. Select the most appropriate option to fill in blank no. 4

- | | |
|-----------|-------------|
| A. heard | B. hear |
| C. listen | D. listened |

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

- | | |
|--------------|-------------|
| A. captured | B. escaped |
| C. absconded | D. released |

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



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

$$4 : 80 :: 6 : ?$$

- | | |
|--------|--------|
| A. 296 | B. 252 |
| C. 229 | D. 151 |
28. एक निश्चित कूट भाषा में, 'TYPICAL' को '93' के रूप में तथा 'FRAME' को '48' के रूप में लिखा जाता है। तो उसी भाषा में 'SENSOR' को किस प्रकार लिखा जाएगा?
- | | |
|-------|-------|
| A. 96 | B. 82 |
| C. 72 | D. 90 |
29. एक निश्चित कूट भाषा में, 'HEALTH' को '132961' के रूप में तथा 'EARTH' को '32761' के रूप में लिखा जाता है। तो उसी भाषा में 'LATER' को किस प्रकार लिखा जाएगा?
- | | |
|----------|----------|
| A. 12636 | B. 92619 |
| C. 92637 | D. 52687 |
30. उस विकल्प का चयन करें जो तीसरे अक्षर-समूह से उसी प्रकार संबंधित है जिस प्रकार दूसरा अक्षर-समूह पहले अक्षर-समूह से संबंधित है।

DEARTH : BFEIUS :: MOSQUE : ?

- | | |
|-----------|-----------|
| A. TPOGVR | B. TPNCWR |
| C. TPNFVR | D. TPQEVS |
31. दो कथनों के बाद दो निष्कर्ष सख्ता। और ॥ दिए गए हैं। कथनों को सत्य मानते हुए, भले ही वे सामान्यतः ज्ञात तथ्यों से भिन्न प्रतीत होते हों, निर्णय लें कि कौन सा/से निष्कर्ष दिए गए कथनों का तार्किक रूप से अनुसरण करता है/हैं।

कथन:

सभी बेड, सोफा सेट हैं।

कुछ सोफा सेट, मैट्रिस हैं।

निष्कर्ष:

I. कुछ सोफा सेट, बेड हैं।

II. कुछ मैट्रिस, सोफा सेट हैं।

A. दोनों निष्कर्ष | और || अनुसरण करते हैं

C. केवल निष्कर्ष | अनुसरण करता है

B. केवल निष्कर्ष || अनुसरण करता है

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

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

नाइटवॉचमैन : किरकेट :: ड्यूस : ?

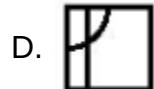
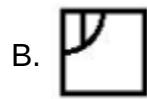
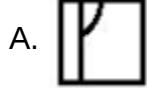
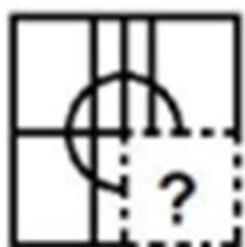
A. टेनिस

B. कुश्ती

C. स्केटिंग

D. कबड्डी

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



34. एक निश्चित कूट भाषा में, 'UNITY' को 'AOOUZ' के रूप में लिखा जाता है और 'PROUD' को 'QSUAE' के रूप में लिखा जाता है। उसी कूट भाषा में 'DOUBT' को किस प्रकार लिखा जाएगा?

A. EPVCU

C. FUVCU

B. EUACU

D. EUVCV

35. यदि $N > G > E$ और $F = E > Q = R$ है, तो निम्न में से कौन सा विकल्प सही नहीं है?

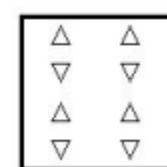
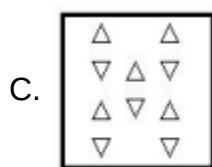
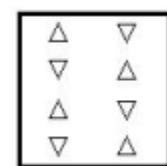
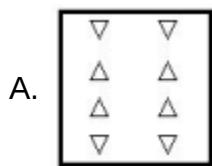
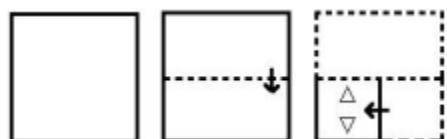
A. $G > Q$

B. $F < R$

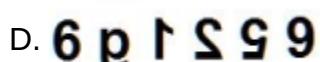
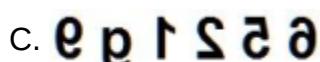
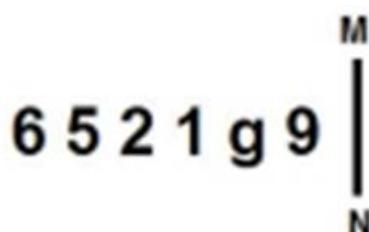
C. $N > E$

D. $F > Q$

36. एक कागज को नीचे दर्शाए अनुसार मोड़ा और काटा जाता है। कागज खोले जाने पर कैसा दिखाई देगा?



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



38. सात लड़कियां अर्थात् P, Q, R, S, T, U और V एक वृताकार मेज की चारों ओर केंद्र की ओर मुख करके बैठी हैं। Q, R की दाईं ओर से तीसरे स्थान पर है। V, P की दाईं ओर से तीसरे स्थान पर है। T, Q की ठीक दाईं ओर है। S, R की ठीक बाईं ओर है। U, R और P के मध्य में बैठा है। S और T के मध्य में कौन बैठा है?

A. P

B. Q

C. O

D. V

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

$$19 * 24 * 8 * 4 * 6 * 40$$

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

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

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

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

40. एक निश्चित कूट भाषा में, 'VIEWER' को 'SFBTBO' के रूप में लिखा जाता है। उसी कूट भाषा में 'CASTLE' को किस प्रकार लिखा जाएगा?

A. ZXPQIB

B. ZXRQID

C. ZUPQLB

D. YXPSMB

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

UNXQ, VOYR, XQAT, ATDW, ?

A. EYGD

B. EYHB

C. EXHA

D. DYHA

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

60, 120, 125, 250, 255, ?, 515

A. 550

B. 350

C. 310

D. 510

43. अर्पण, लोहित, विनायक, कृपाल और अशरफ एक फ़िल्म देख रहे हैं। सभी स्क्रीन की ओर मुख करके एक पंक्ति में बैठे हैं। कृपाल, अशरफ की ठीक बाई ओर है। विनायक, अर्पण की ठीक बाई ओर है। लोहित, अर्पण की बाई ओर से दूसरे स्थान पर है। कृपाल एक कोने पर बैठा है। कौन अशरफ की ठीक दाई ओर बैठा है?

A. विनायक

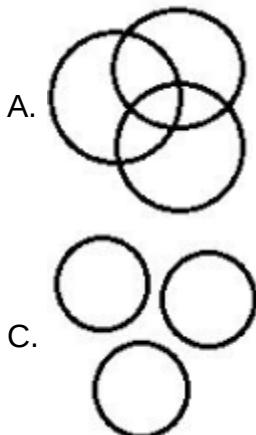
B. लोहित

C. अर्पण

D. कृपाल

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

ग्रामीण, लड़के, लड़कियाँ



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

60, 80, 64, 70, 68, 60, ?, 50

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

$$39 \times 6 + 27 \div 3 - 52 = 123$$

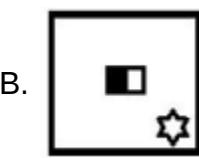
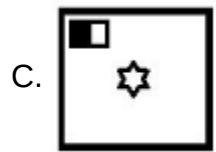
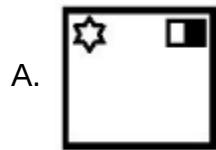
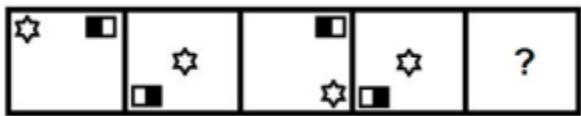
47. उस विकल्प का चयन करें जो तीसरे शब्द से उसी प्रकार संबंधित है जिस प्रकार दूसरा शब्द पहले शब्द से संबंधित है।

जीव विज्ञान : विज्ञान :: राजनीति विज्ञान : ?

48. दिए गए पैटर्न का ध्यानपूर्वक अध्ययन करें और उस संख्या का चयन करें जो उसमें प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित कर सकती है।

8	14	224
11	15	330
9	12	?

49. उस विकल्प का चयन करें जो निम्नलिखित आकृति शस्त्रखला में प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगा।



50. दो कथनों के बाद तीन निष्कर्ष सख्ता I, II और III दिए गए हैं। कथनों को सत्य मानते हुए, भले ही वे सामान्यतः ज्ञात तथ्यों से भिन्न प्रतीत होते हों, निर्णय लें कि कौन सा/से निष्कर्ष दिए गए कथनों का तार्किक रूप से अनुसरण करता है/हैं।

कथनः

कुछ क्रिकेटर, खिलाड़ी हैं।

कोई खिलाड़ी, संगीतकार नहीं है।

निष्कर्ष-

- I. कोई फिरकेटर, संगीतकार नहीं है।
 - II. कुछ खिलाड़ी, फिरकेटर हैं।
 - III. कोई संगीतकार, खिलाड़ी नहीं है।

A. सभी निष्कर्ष अनुसरण करते हैं

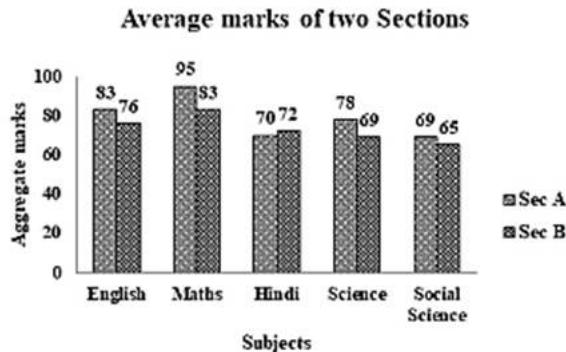
C. केवल निष्कर्ष I और II अनुसरण करते हैं

B. केवल निष्कर्ष I और III अनुसरण करते हैं

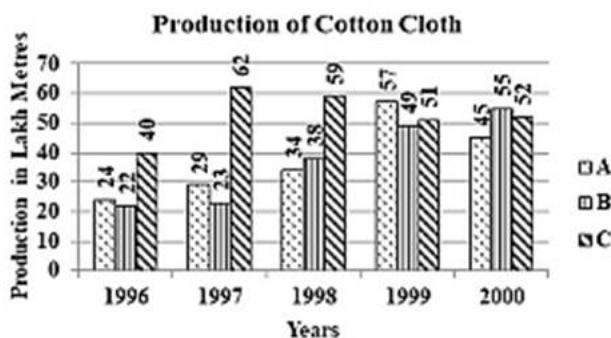
D. केवल निष्कर्ष II और III अनुसरण करते हैं

51. एक दुकानदार दो प्रकार के चावल को 1:5 के अनुपात में मिलाता है। टाइप 1 चावल की कीमत 65 रुपये प्रति किलो और टाइप 2 चावल की कीमत 95 रुपये प्रति किलो है। उन्होंने मिश्रित चावल 99 रुपये प्रति किलो के हिसाब से बेचा। उसका लाभ प्रतिशत ज्ञात कीजिए?
- A. $25\frac{1}{3}\%$ B. 19%
 C. 10% D. 4%
52. दो संख्याओं का LCM 90 है, जबकि उनका HCF 6 है। यदि एक संख्या दूसरी से 12 अधिक है, तो बड़ी संख्या क्या होगी?
- A. 12 B. 45
 C. 30 D. 51
53. अखिल और सुनीता की औसत आयु 51 वर्ष, सुनीता और वीना की 31 वर्ष और वीना तथा अखिल की औसत आयु 33 वर्ष है। वीणा की आयु कितनी है?
- A. 13 वर्ष B. 49 वर्ष
 C. 53 वर्ष D. 17 वर्ष
54. 700 मीटर लंबी एक ट्रेन 60 किमी/घंटा की गति से चल रही है। यदि एक पुल को पार करने में 72 सेकंड लगते हैं तो पुल की लंबाई ज्ञात कीजिए?
- A. 1700 मी B. 1200 मी
 C. 600 मी D. 500 मी
55. एक दुकानदार ने 42,000 रुपये में एक कंप्यूटर और 3,000 रुपये में एक प्रिंटर खरीदा। यदि उसने दोनों वस्तुओं को एक साथ 51,750 रुपये में बेचा, तो उसका लाभ प्रतिशत कितना होगा?
- A. 15% B. $17\frac{2}{9}\%$
 C. $16\frac{1}{14}\%$ D. $23\frac{3}{14}\%$
56. $4\frac{1}{3} + \left[7\frac{2}{3} - \frac{4}{3} \left(\frac{25}{3} - \frac{1}{6} - \frac{2}{3} \right) \right]$ का मान क्या होगा?
- A. 5 B. 8
 C. 2 D. 10
57. एक वृत्ताकार पार्क की तिरજ्या 23 मीटर है। इसके चारों ओर 4 मीटर चौड़ा रास्ता है। $500/\text{मी}^2$ की दर से रास्ते को पक्का करने का खर्च ज्ञात कीजिए?

$$(\pi = \frac{22}{7} \text{ लैं})$$



सेक्शन A के छातरों ने कितने विषयों में बेहतर परिणाम दिखाया?



कंपनी A द्वारा 1998 से 1999 तक और कंपनी C द्वारा 1996 से 1997 तक उत्पादन में वृद्धि के बीच का अंतर (लाख मीटर में) कितना है?

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



विविध और मकान किराए पर खर्च की गई राशि का केंद्रीय कोण घरेलू व्यय से कितना अधिक है?

- A. 40°
 - B. 30°
 - C. 36°
 - D. 10°
68. यदि एक कार 1 घंटे 24 मिनट में दो-तिहाई दूरी 52 किमी/घंटा और शेष 65 किमी/घंटा की गति से तय करती है, तो कुल दूरी ज्ञात करें?
- A. 78 किमी
 - B. 163.8 किमी
 - C. 75.8 किमी
 - D. 46.8 किमी
69. एक ठोस धातु के खिलौने का अर्धगोलाकार आधार होता है जिसकी तिरज्या 3.5 सेमी होती है जिसके ऊपर एक शंकु होता है। यदि शंकु की ऊँचाई उसके आधार की तिरज्या के समान है, तो सेमी^3 में प्रयुक्त धातु का आयतन क्या होगा? ($\pi = \frac{22}{7}$ लें)
- A. $89\frac{2}{3}$ सेमी 3
 - B. $144\frac{3}{4}$ सेमी 3
 - C. $134\frac{3}{4}$ सेमी 3
 - D. $179\frac{2}{3}$ सेमी 3
70. सुमित ने दो बैंकों में से प्रत्येक में 2 वर्षों के लिए 50,000 रुपये का निवेश किया। पहला बैंक 11% प्रति वर्ष की दर से साधारण ब्याज देता है, जबकि दूसरा बैंक 10% प्रति वर्ष की दर से चक्रवृद्धि ब्याज देता है। उसने 2 वर्षों में दोनों बैंकों से कितना ब्याज अर्जित किया?
- A. 21,000 रुपये
 - B. 10,000 रुपये
 - C. 10,500 रुपये
 - D. 21,500 रुपये
71. दो उम्मीदवारों के बीच हुए चुनाव में 16% मतदाताओं ने अपना वोट नहीं डाला। डाले गए मतों में से 10% मत अवैध पाए गए। सफल उम्मीदवार को वैध मतों का 60% प्राप्त हुआ और वह 567 मतों के अंतर से जीता। मतदाता सूची में नामांकित मतदाताओं की संख्या कितनी है?
- A. 3000
 - B. 3750
 - C. 2500
 - D. 3570

72. यह परयोजन था कि 2,820 रुपये को A, B और C के बीच 3: 4: 5 के अनुपात में विभाजित किया जाए, लेकिन त्रुटिवश $\frac{1}{3} : \frac{1}{4} : \frac{1}{5}$ के अनुपात में वितरण किया गया। A को त्रुटि से कितना लाभ होता है?

 - A. 500 रुपये
 - B. 495 रुपये
 - C. 720 रुपये
 - D. 17 रुपये

73. 6 पुरुष और 8 महिलाएं और साथ ही 3 पुरुष और 13 महिलाएं उसी कार्य को 10 दिनों में पूरा कर सकते हैं। यदि वे अकेले कार्य करें तो 6 महिलाएं उसी कार्य को कितने दिनों में समाप्त करेंगी?

 - A. 32
 - B. 25
 - C. 30
 - D. 35

74. एक पुरुष एक कार्य को 6 दिनों में कर सकता है, जबकि एक महिला उसी कार्य को 12 दिनों में कर सकती है। पुरुष और महिला एक साथ कार्य करते हुए उसी काम को कितने दिनों में कर पाएंगे?

 - A. 4
 - B. $3\frac{1}{2}$
 - C. 5
 - D. 3

75. $\frac{1 \div \frac{3}{7} \text{ of } (6 + 8 \times 3 - 2) + \left[\frac{1}{5} \div \frac{7}{25} - \left\{ \frac{3}{7} + \frac{8}{14} \right\} \right]}{18 \div 10 - 4 + 32 \div (4 + 10 \div 2 - 1)}$ का सरलीकृत मान क्या है?

 - A. $-\frac{5}{42}$
 - B. $\frac{5}{42}$
 - C. $-\frac{5}{294}$
 - D. $\frac{5}{294}$

76. 'बाणगंगा' महोत्सव निम्नलिखित में से किस राज्य से जुड़ा हुआ है?

 - A. पंजाब
 - B. सिक्किम
 - C. उत्तराखण्ड
 - D. महाराष्ट्र

77. आवृत्ति का एसआई (SI) मात्रक _____ है।

 - A. ओम
 - B. हट्टर्ज़
 - C. वोल्ट
 - D. जूल

78. ब्रिटिश सरकार ने भारत में मॉर्ले-मिंटो सुधारों की घोषणा किस वर्ष में की थी?

 - A. 1905
 - B. 1919
 - C. 1932
 - D. 1909

79. राष्ट्रीय हथकरघा दिवस कब मनाया जाता है?

 - A. 23 अगस्त
 - B. 18 नवंबर

- C. 15 सितंबर

D. 7 अगस्त

80. LED का पूर्ण रूप क्या है?

A. Linear Emergency Device

B. Light Emitting Diode

C. Liquid Emitting Display

D. Light Emitting Device

81. भारत के संविधान के निम्नलिखित में से किस अनुच्छेद में कहा गया है कि देवनागरी लिपि में हिंदी संघ की आधिकारिक भाषा होगी?

A. अनुच्छेद 343(2)

B. अनुच्छेद 354(2)

C. अनुच्छेद 343(1)

D. अनुच्छेद 343(3)

82. प्रित्यकर पुरस्कार को आमतौर पर _____ के क्षेत्र के लिए दिए जाने वाले नोबेल पुरस्कार के रूप में जाना जाता है।

A. विज्ञान

B. अर्थशास्त्र

C. वास्तुकला

D. कला

83. भोजताल, जिसे पहले अपर लेक के नाम से जाना जाता था, निम्नलिखित में से किस राज्य में स्थित है?

A. उड़ीसा

B. मध्य प्रदेश

C. राजस्थान

D. उत्तर प्रदेश

84. निम्नलिखित में से किस शहर में जवाहरलाल नेहरू मणिपुर नृत्य अकादमी स्थित है?

A. गुवाहाटी

B. बैंगलुरु

C. इंफाल

D. हैदराबाद

85. निम्नलिखित में से कौन सा सरकारी प्राधिकरण भारत के मुख्य चुनाव आयुक्त की नियुक्ति कर सकता है?

A. प्रधानमंत्री

B. राष्ट्रपति

C. उप राष्ट्रपति

D. सर्वोच्च न्यायालय के मुख्य न्यायाधीश

86. अगस्त 2020 तक भारत का कौन सा राज्य सुनामी से निपटने हेतु तैयारियों के लिए 'सुनामी रेडी (Tsunami Ready)' गांव वाला पहला राज्य बन गया है?

A. तमिलनाडु

B. उड़ीसा

C. केरल

D. गुजरात

87. बेरियम नाइट्रेट का उपयोग सिंगल फ्लेयर्स और आतिशबाजी में किया जाता है जो चमकीले _____ रंग में जलते हैं।

A. नारंगी

B. नीले

C. पीले

D. हरे

88. प्रवासी श्रमिकों को सशक्त बनाने और आजीविका के अवसर प्रदान करने के लिए भारत सरकार द्वारा 'गरीब कल्याण रोजगार अभियान' (GKRA) नामक एक विशाल रोजगार-सह-ग्रामीण लोक निर्माण अभियान कब शुरू किया गया था?

A. जून 2019

B. जून 2020

C. जून 2018

D. जून 2017

89. निम्नलिखित में से किस देश को भारतीय निर्यात-आयात बैंक ने देश में बिजली आपूर्ति की गणवत्ता में सुधार के लिए \$250 मिलियन की ऋण

सहायता प्रदान की?

- A. नेपाल
- B. मोज़ाम्बिक
- C. बांग्लादेश
- D. श्रीलंका

90. राजकोषीय नीति किसी देश की सरकार को किसके प्रवाह को नियन्त्रित करने में मदद करती है:

- A. इकिटी बाजार
- B. एंजेल निवेश
- C. व्यक्तिगत व्यय
- D. कर राजस्व

91. ग्रामीण क्षेत्रों के लिए पेयजल और स्वच्छता मंत्रालय द्वारा 2 अक्टूबर 2014 को निम्नलिखित में से कौन सा स्वच्छता अभियान पूरे भारत में शुरू किया गया था?

- A. मिशन वृक्षरोपण
- B. स्वच्छ भारत मिशन
- C. स्मार्ट सिटी सेंटर योजना
- D. प्रधानमंत्री जन विकास कार्यक्रम

92. निम्नलिखित में से कौन 'बीइंग गांधी' के लेखक हैं?

- A. आशीष रे
- B. पारो आनंद
- C. निरुपमा यादव
- D. वी पट्टाभि राम

93. 'हॉकी के जादूगर' के रूप में किसे जाना जाता है?

- A. बलबीर सिंह
- B. धनराज पिल्ले
- C. मोहम्मद शाहिद
- D. मेजर ध्यानचंद

94. विश्व प्रकृति संरक्षण दिवस कब मनाया जाता है?

- A. 12 जुलाई
- B. 5 अगस्त
- C. 28 जुलाई
- D. 30 मई

95. पुर्तगालियों द्वारा श्रीलंका की खोज किस वर्ष में की गई थी?

- A. 1545
- B. 1678
- C. 1505
- D. 1670

96. राष्ट्रीय खेल पुरस्कार, 2020 में पैरा-स्चिमिंग के लिए अर्जुन पुरस्कार किसने जीता?

- A. गौरव खन्ना
- B. मरियप्पन टी
- C. सुयश जाधव
- D. विजय मुनीश्वर

97. निम्नलिखित में से किस वर्ष में इंदिरा गांधी के नेतृत्व वाली कांग्रेस पार्टी ने लोकसभा चुनाव में 'गरीबी हटाओ' ('रिमूव पावर्टी') का नारा दिया था?

- A. 1957
- B. 1962
- C. 1977
- D. 1971

98. निम्नलिखित में से कौन मार्च 2020 में 'नारी शक्ति पुरस्कार 2019' प्राप्त करने वाली पहली तीन भारतीय महिला लड़ाकू पायलटों में से एक है?

- A. निरुपमा यादव
- C. सीमा राव

99. म्यांमार का प्रमुख धर्म कौन सा है?

- A. इस्लाम
- C. ईसाई धर्म

- B. जानकी सबेश
- D. अवनि चतुर्वेदी

100. भारत में प्रथम महालेखाकार का पद किस वर्ष में स्थापित किया गया था?

- A. 1858
- C. 1890

- B. 1845
- D. 1867

Solutions

1. A

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

- * *Obligation* = the state of being forced to do something because it is your duty, or because of a law etc.
- * *Acknowledgement* = an act of accepting that something exists or is true, or that something is there.
- * *Requirement* = something that you need or want.
- * *Appreciation* = pleasure that you have when you recognize and enjoy the good qualities of someone/something.

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

- * “*Acknowledgement*” as a noun is used in context of “accepting something”. Thus, option B is incorrect.
- * “*Requirement*” as a noun means something that you need or want. Thus, option C is incorrect.
- * “*Appreciation*” as a noun is used in context of “having pleasure in recognising something”. Thus, option D is incorrect.
- * “*Obligation*” as a noun is used in context of “doing something that you are legally bound to do”.
- * Here in the given sentence, it is used to mention that if someone damages the property then he/she is liable to pay for the repairs as per the rules set by the legal framework.

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

Thus, the correct sentence will be: **If you damage the property of others you are under a legal obligation to pay for the repairs.**

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

2. B

Sol. The idiom "**make no bones about something**" means to be honest and open about something.

Example: He **made no bones about** telling her exactly what he thought of her.

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

3. C

Sol. The idiom "**to take for granted**" means to believe something is true without first making sure that it is.

Example: I just **took it for granted** that he would always be around.

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

4. B

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

Loyalty = be loyal to someone/something

E.g.: His primary **loyalty** was to his family.

Hatred = a very strong feeling of dislike for someone/something.

Faithfulness = the quality of staying with or supporting a particular person, organisation, or belief.

E.g.: We had doubts about his **faithfulness**.

Dislike = to not like someone/something.

Pleasure = a state of feeling or being happy or satisfied.

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

5. B

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

- * Underlined part needs correction in structure of verb.
- * “Has/Have/Had + to” is used to show the necessity like the modal verb “must”. As per subject verb agreement, “has to” is used with the singular subject and “Have to” is used with plural. Unlike, “must” that does not have past form, we use “Had to” to fulfil that space in simple past tense i.e. when the “action really happened”.

For example:

He **has to** curb his natural exuberance.

I **have to** go on a diet. The doctor has told me to.

I **had to** pay \$15 for this railcard last week.

- * “Having + to” is the continuous form of “have + to” verb.

For example:

It's no fun **having to** stand the whole journey.

* In the underlined part of the given sentence, we have used continuous form of verb i.e. “having to”. This is wrong because the action of “apply” actually happened in past timeline and it is not in continuing state now. To show that this act happened while “Girish” was driving we have to use the past form of verb i.e. “had to”.

* Also, we can't use “have to” because as per the subject verb agreement singular subject (i.e. “Girish”) takes singular helping verb (i.e. “has to”) which is unavailable in the options. Thus, to preserve the sense of “necessity” in the sentence, we are left with only form of verb i.e. “had to”.

* Hence, “**had to apply**” is the correct substitution.

Thus, the correct sentence will be:

While driving down, Girish had to apply for official permission to cross the two states.

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

6. D

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

Hope =a feeling of wanting and expecting a particular thing to happen.

E.g.: They have high **hopes** for their children.

Promise =a statement that tells someone that you will definitely do or not do something.

Faith = trust in someone's ability or knowledge.

Trust = the belief that someone/something is good, sincere, honest etc. and will not try to harm or trick you.

Despair = the feeling of having lost all hope.

E.g.: A deep sense of **despair** overwhelmed him.

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

7. B

Sol. Vagabond: a person who has no home or job and who travels from place to place.

Recluse: a person who lives alone and likes to avoid other people.

Guru: a person who is an expert on a particular subject or who is very good at doing something.

Saint: a person that the Christian Church recognizes as being very holy, because of the way they have lived or died.

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

8. C

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

"Explanation" is the correct spelling of the incorrect word "explaination". It means a statement, fact, or situation that tells you why something happened.

The meaning of other words are:

Objective: something that you are trying to achieve.

Opportunity: a time when a particular situation makes it possible to do or achieve something.

Contextual: connected with a particular context.

9. B

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

* Structure of Interrogative sentence in simple future tense:

Shall/will + Subject + first form of verb + Object?

For example:

Will you **call** the kids in for lunch?

Shall we **meet** at eight o'clock for dinner?

* The given interrogative sentence is set in simple future tense. But we have erroneously used third form of verb i.e. "taught" after the modal verb "will". Thus, first form of verb "teach" should be used in place of "taught" as per the structure of simple future tense.

* Hence, "**will you teach me**" is the correct substitution.

Thus, the correct sentence will be:

By the way, will you teach me how to speak in English?

10. A

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

* Underlined part needs correction in tense.

* Present indefinite tense is used to denote "habit, repeated action, custom etc. This is reflected in the use of adverbs of frequency like "everyday", "daily", "seldom", "usually" etc.

For example:

He **usually goes** for a walk in the morning.

* Future indefinite tense is used to show the action that is going to take place in future. It is usually denoted by time expressions like “tomorrow”, “next day/week/month/year” etc.

For example:

It is now confirmed that the meeting **will** take place **next week**.

* In the given sentence, we have adverb of frequency “every day” that shows that the action (i.e. “carry”) is happening on a daily basis. But we have erroneously used future tense. Thus, as per the structure of simple present tense, first form of verb “carries” should be used in place of “will carry”.

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

Thus, the correct sentence will be:

Mani carries the bundle of clothes in a bucket to dry them out in the sun every day.

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

11. A

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

* “As soon as” as a conjunction is used to start the adverbial clause of time.

For example:

I'll come and see you **as soon as** I've finished work.

Here, “I have finished work” is the adverbial clause of time started by conjunction “as soon as”.

* In the given sentence we have “the ceremony was over” as an adverbial clause of time that shows the time or moment when “the champions would walk in a majestic procession”. But we have used the wrong structure of conjunction to start the adverbial clause of time. Thus, correct form of conjunction “as soon as” should be used.

* Hence, “**As soon as the ceremony was over**” is the correct substitution.

Thus, the correct sentence will be:

As soon as the ceremony was over, the champions would walk in a majestic procession.

12. B

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

“Television” is the correct spelling of the incorrect word “talevision”. It means a piece of electrical equipment with a screen on which you can watch program with moving pictures and sounds.

The meaning of other words are:

Refrigerator: a piece of electrical equipment in which food is kept cold so that it stays fresh.

Machine: a piece of equipment with many parts that work together to do a particular task.

Vacuum-cleaner: an electrical machine that cleans floors, carpets etc. by sucking up dirt and dust.

13. B

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

* *Constant* = happening all the time or repeatedly.

* *Permanent* = lasting for a long time; existing all the time.

* *Final* = being or happening at the end of a series of events, actions etc.

* *Lasting* = continuing to exist or to have an effect for a long time.

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

* “*Constant*” as an adjective is used in context of “repeated occurrence of something”. Thus, option A is incorrect.

* “*Final*” as an adjective is used in context of “at the end of a series of events”. Thus, option C is incorrect.

- * “*Lasting*” as an adjective is used in context of “having an effect for a long time”. Thus, option D is incorrect.
- * “*Permanent*” as an adjective is used in context of “lasting for long time”.
- * Here in the given sentence, it is used to qualify the noun i.e. “license”. It mentions that speaker, after completing learner’s driving test, is asking for a license that would last for long i.e. not temporary.

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

Thus, the correct sentence will be:

I completed my learner's driving test last week. When am I going to get my permanent license?

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

14. A

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

Ominous= suggesting that something bad is going to happen in the future.

E.g.: He picked up the phone but there was an **ominous** silence at the other end.

Threatening = expressing a threat of harm or violence.

E.g.: I found an extremely **threatening** message on my voicemail.

Promising = showing signs of being good or successful.

Capable = having the ability or qualities necessary for doing something.

Favourable = making people have a good opinion of someone/something.

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

15. C

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

- * *Exhaust* = is the structure of plural verb used in simple present tense.
- * *Exhausts* = is the structure of singular verb used in simple present tense.
- * *Exhausted* = is the second and third form of verb “Exhaust”.
- * *Exhausting* = is the continuous form of verb “Exhaust”

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

- * “*Exhaust*” is the structure of plural verb used in simple present tense. But filler needs third form of verb as an adjective. Thus, option A is incorrect.
- * “*Exhausts*” is the structure of singular verb used in simple present tense. But filler needs third form of verb as an adjective. Thus, option B is incorrect.
- * “*Exhausting*” is the continuous form of verb “Exhaust”. But filler needs third form of verb as an adjective. Thus, option D is incorrect.
- * “*Exhausted*” is the third form of verb “Exhaust”. It is used as an adjective (subject complement) for subject.
- * Here in the given sentence, it is used as a subject complement (adjective) for subject “She”. It is used to mention that the subject was completely exhausted i.e. “very tired” after a long and tiring day.

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

Thus, the correct sentence will be:

After a long and tiring day, Lata said she was completely exhausted.

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

16. B

Sol. Embryology: the scientific study of the development of embryos.

Etymology: the study of the origin and history of words and their meanings.

Entomology: the scientific study of insects.

Epistemology: the part of philosophy that deals with knowledge.

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

17. A

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

Barren= land or soil that is not good enough for plants to grow on it.

E.g.: We saw a **barren** landscape without a scrap of vegetation.

Fertile = land or soil in which plants grow well.

E.g.: Whole tracts of country, once **fertile**, have become arid.

Empty = with no people or things inside.

Vacant = empty

Clear= easy to understand and not confusing.

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

18. C

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

* Underlined part needs correction in structure of verb.

* We use be “going to + base form” for a present situation which points to the future.

For example:

This fence is **going to fall** down soon.

It's ten already. We're **going to be** late.

* In the given sentence, time word “tomorrow” shows that the action of “meet” will happen in future. But we have erroneously used participle form of verb after “going to”. Thus, as per the

structure of “Going to + base form of verb”, base form of verb “meet” should be used in place of participle “meeting”.

* Hence, “**going to meet**” is the correct substitution.

Thus, the correct sentence will be:

The Principal is going to meet the senior classes tomorrow.

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

19. D

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

- * *What* = (determiner) is used to ask for particular information about someone/something
- * *Whichever* = (pronoun) is used to say what feature or quality is important in deciding something.
- * *Whatever* = (pronoun) is used when you are saying that it does not matter what someone does or what happens, because the result will be the same.
- * *Which* = (pronoun) is used to be exact about the thing or things that you mean.

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

- * “*What*” as a determiner is used to ask for particular information about someone/something. Thus, option A is incorrect.
- * “*Whichever*” as a pronoun is used to say what feature or quality is important in deciding something. Thus, option B is incorrect.
- * “*Whatever*” as a pronoun is used when you are saying that it does not matter what someone does or what happens, because the result will be the same. Thus, option C is incorrect.
- * “*Which*” as a pronoun is used to be exact about the thing or things that you mean.
- * Here in the given sentence, it is used to be exact about “voluntary and involuntary moves” i.e. those that are made by us.

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

Thus, the correct sentence will be:

The human brain regulates and coordinates all the voluntary and involuntary moves which we make.

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

20. A

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

* “Information” is an uncountable noun. We use phrase “a piece of” to show the singularity and “much”/“some” to show the plurality. But no “s/es” is added at the end to make the plural form of “information”.

For example:

I have found an interesting **piece of information** in the newspaper.

I am writing to ask for **some information** about courses.

* In the given sentence we have erroneously added “s” in the end of “information” to make its plural form. Moreover, there is no need to show the plurality of “information” because singular helping verb “is” is used in the latter part of the sentence. Thus, singular form of uncountable noun i.e. “information” should be used.

* Hence, “**giving information**” is the correct substitution.

Thus, the correct sentence will be:

Asking for and giving information is an important feature of conversations.

21. C

Sol. The given passage is about **“How author used radio for news and as an alarm clock?”**.

“Come In” as a phrasal verb means to enter a room or building. Thus, option A is wrong.

“Come Of” as a phrasal verb means to be the result of something. Thus, option B is wrong.

“Come Off” as a phrasal verb means to be able to be removed. Thus, option D is wrong.

“Come On” as a phrasal verb means to begin to operate or to start.

In the given sentence, it is used to show the automatic start of radio at 7 o'clock.

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

22. D

Sol. The given passage is about “**How author used radio for news and as an alarm clock?**”.

“Out” as an adverb means away from the inside of a place or thing. Thus, option A is wrong.

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

“At” as a preposition is used to show when something happens. Thus, option C is wrong.

“Wake someone up” as a phrasal verb means to make someone stop sleeping.

In the given sentence, it is used to show that automatic start of radio at 7 o'clock stopped the author from sleeping.

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

23. C

Sol. The given passage is about “**How author used radio for news and as an alarm clock?**”.

“That” as a relative pronoun is used for referring to someone/something that has already been mentioned or is already known about. Thus, option A is wrong.

“What” as a pronoun is used to ask for particular information about someone/something. Thus, option B is wrong.

“Which” as a relative pronoun is used to refer things. Thus, option D is wrong.

“It” as a pronoun is used in the position of subject of a verb when you are talking about time, the date, distance, the weather etc.

In the given sentence, it is used to talk about the time shown by the clock i.e. “ten past seven”.

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

24. B

Sol. The given passage is about “**How author used radio for news and as an alarm clock?**”.

“Heard” is the second form of verb “Hear”. But we need base form of verb after the modal verb. Thus, option A is wrong.

“Listen” means to pay attention to someone/something that you can hear. Thus, option C is wrong.

“Listened” is the second form of verb “Listen”. But we need base form of verb after the modal verb. Thus, option D is wrong.

“Hear” as a verb means to be aware of sounds with your ears.

In the given sentence, it is used to show that author was aware of sounds (of news) coming out of radio. But he was not able to pay attention to those sounds properly as he was in shower.

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

25. B

Sol. The given passage is about **“How author used radio for news and as an alarm clock?”**.

“Captured” means to catch a person or an animal and keep them as a prisoner or shut them in a space that they cannot escape from. Thus, option A is wrong.

“Absconded” means to leave secretly and take with you something that does not belongs to you. Thus, option C is wrong.

“Released” means to let someone come out of a place where they have been kept or stuck and unable to move. Thus, option D is wrong.

“Escaped” as a verb means to get away from a place where you have been kept as a prisoner or not allowed to leave.

In the given sentence, it is used to show that author heard a news related to an elephant that left the circus where he was kept like a prisoner.

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

26. B

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



इसलिए, विकल्प B सही उत्तर है।

27. B

Sol. जैसाकि,

$$4^2 * (4+1) = 16 * 5 = 80$$

इसी प्रकार,

$$6^2 * (6+1) = 36 * 7 = 252$$

इसलिए, विकल्प B सही उत्तर है।

28. A

Sol. माना A=1, B=2, C=3,.....Z=26

जैसाकि,

$$\text{TYPICAL} = 20 + 25 + 16 + 9 + 3 + 1 + 12 = 86,$$

$$\text{अब, } 86 + \text{TYPICAL में अक्षरों की संख्या} = 86 + 7 = 93$$

और

$$\text{FRAME} = 6 + 18 + 1 + 13 + 5 = 43$$

$$\text{अब, } 43 + \text{FRAME में अक्षरों की संख्या} = 43 + 5 = 48$$

इसी प्रकार,

$$\text{SENSOR} = 19 + 5 + 14 + 19 + 15 + 18 = 90$$

अब, 90+ SENSOR में अक्षरों की संख्या = $90 + 6 = 96$

इसलिए, विकल्प A सही उत्तर है।

29. C

Sol. तर्क: संबंधित अक्षर कूट लें।

दिया गया है,

H	E	A	L	T	H
1	3	2	9	6	1

और

E	A	R	T	H
3	2	7	6	1

अतः,

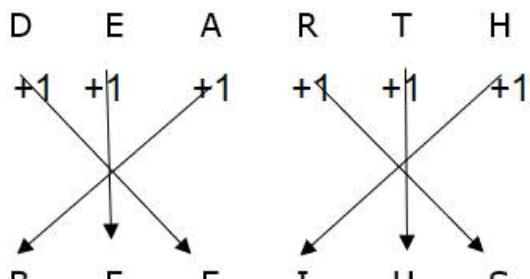
L	A	T	E	R
9	2	6	3	7

इसलिए, विकल्प C सही उत्तर है।

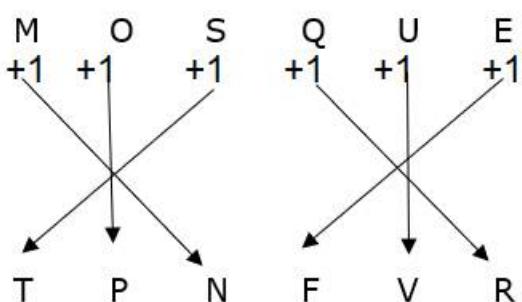
30. C

Sol.

as,



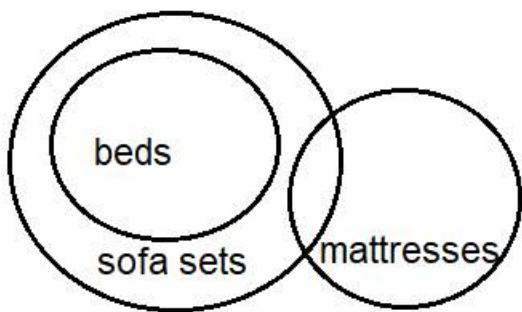
similarly,



इसलिए, विकल्प C सही उत्तर है।

31. A

Sol. न्यूनतम संभावित आरेख है-



निष्कर्ष:

I. कुछ सोफा सेट, बेड हैं। (यह अनुसरण करता है क्योंकि सभी बेड, सोफा सेट हैं।)

II. कुछ मैट्रिस, सोफा सेट हैं। (यह अनुसरण करता है क्योंकि कुछ सोफा सेट, मैट्रिस हैं।)

अतः, दोनों निष्कर्ष | और || अनुसरण करते हैं।

इसलिए, विकल्प A सही उत्तर है।

32. A

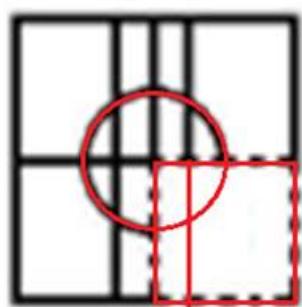
Sol. क्रिकेट के खेल में, एक नाइटवॉचमैन निचले क्रम का बल्लेबाज होता है जो दिन के खेल के अंत में सामान्य से ऊपर के क्रम में बल्लेबाजी करने के लिए आता है।

ड्यूस टेनिस के एक खेल में स्कोर है जब दोनों खिलाड़ियों के पास चालीस पाइंट होते हैं। एक खिलाड़ी को गेम जीतने के लिए एक के बाद एक दो पाइंट हासिल करने होते हैं।

इसलिए, विकल्प A सही उत्तर है।

33. D

Sol. पूर्ण आकृति है:



इसलिए, विकल्प D सही उत्तर है।

34. B

Sol. तर्क: संबंधित अक्षर कूट लें।

दिया है,

U	N	I	T	Y
A	O	O	U	Z

और

P	R	O	U	D
Q	S	U	A	E

अतः,

D	O	U	B	T
E	U	A	C	U

इसलिए, विकल्प B सही उत्तर है।

35. B

Sol. $N > G > E \quad \dots(1)$

$F = E > Q = R \quad \dots(2)$

(1) और (2) से,

$N > G > F = E > Q = R$

A. $G > Q$ (सही है क्योंकि $G > F = E > Q$)

B. $F < R$ (गलत है क्योंकि $F = E > Q = R$)

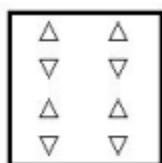
C. $N > E$ (सही है क्योंकि $N > G > F = E$)

D. $F > Q$ (सही है क्योंकि $F = E > Q$)

इसलिए, विकल्प B सही उत्तर है।

36. D

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



इसलिए, विकल्प D सही उत्तर है।

37. C

Sol. एक समतल दर्पण में, एक दर्पण छवि किसी वस्तु का परावर्तित 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 प्रतिबिंब के परिणामस्वरूप उत्पन्न

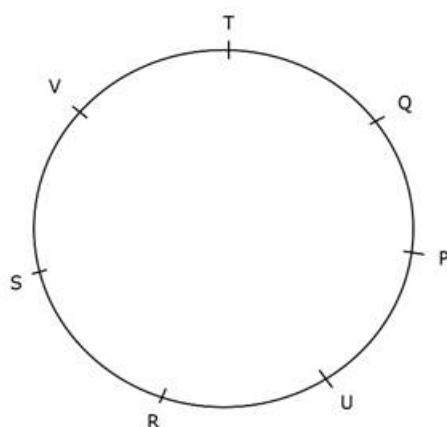
होती है।



इसलिए, विकल्प C सही उत्तर है।

38. D

Sol. प्रश्न के अनुसार बैठने की व्यवस्था इस प्रकार है -



इस प्रकार, V, S और P के मध्य में बैठा है।

इसलिए, विकल्प D सही उत्तर है।

39. B

Sol. विकल्प A की जांच करने पर:

$$19 * 24 * 8 * 4 * 6 * 40$$

परस्पर बदलाव के बाद:

$$19 \times 24 \div 8 + 4 - 6 = 40$$

$$\text{या, } 19 \times 3 - 2 = 40$$

या, $57 - 2 = 40$

या, $55 = 40$

तो, यह सही विकल्प नहीं है।

विकल्प B की जांच करने पर:

$$19 * 24 * 8 * 4 * 6 * 40$$

परस्पर बदलाव के बाद:

$$19 - 24 \div 8 + 4 \times 6 = 40$$

$$\text{या, } 19 - 3 + 24 = 40$$

$$\text{या, } 40 = 40$$

तो, यह सही विकल्प है।

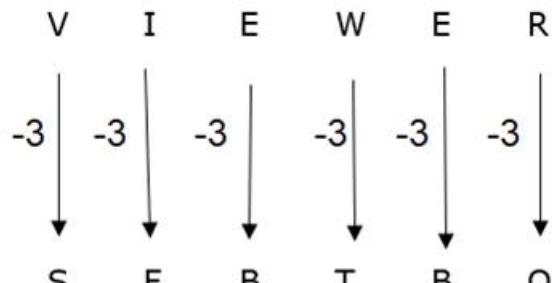
जैसा कि, हमें सही उत्तर प्राप्त हो गया है, इसलिए अधिक विकल्पों की जांच करने की आवश्यकता नहीं है।

इसलिए, विकल्प B सही उत्तर है।

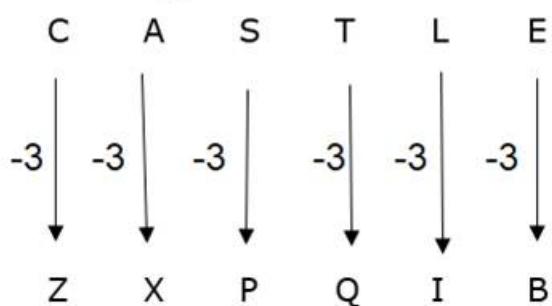
40. A

Sol.

as,



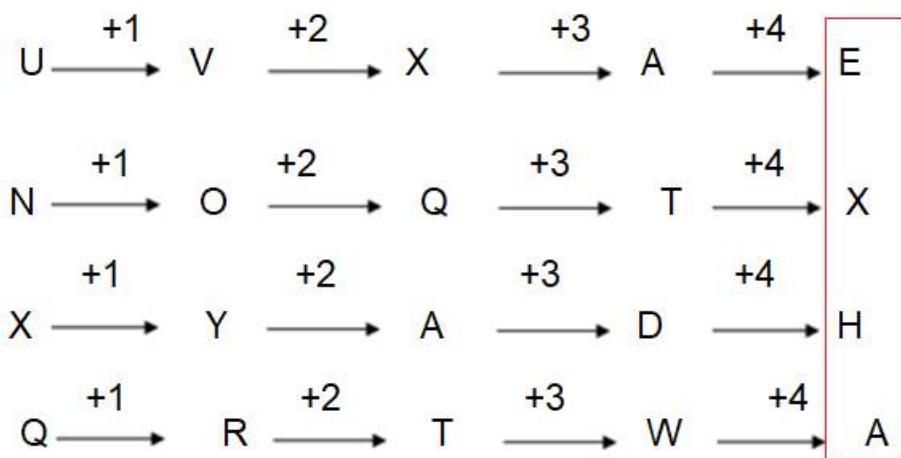
similarly,



इसलिए, विकल्प A सही उत्तर है।

41. C

Sol. पैटर्न इस प्रकार है:



इसलिए, विकल्प C सही उत्तर है।

42. D

Sol. पैटर्न इस प्रकार है:

$$60 \times 2 = 120$$

$$120 + 5 = 125$$

$$125 \times 2 = 250$$

$$250 + 5 = 255$$

$$255 \times 2 = 510$$

$$510 + 5 = 515$$

इसलिए, विकल्प D सही उत्तर है।

43. B

Sol. कृपाल, अशरफ की ठीक बाईं ओर है।

कृपाल अशरफ

विनायक, अर्पण की ठीक बाईं ओर है।

विनायक अर्पण

लोहित, अर्पण की बाईं ओर से दूसरे स्थान पर है।

लोहित _ अर्पण

कृपाल, एक कोने पर बैठा है।

तो, अंतिम व्यवस्था है:



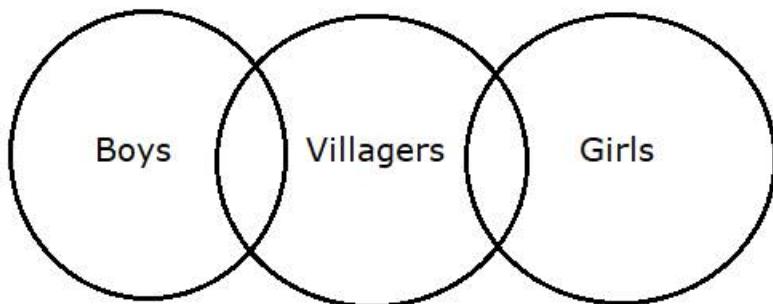
अतः लोहित, अशरफ की ठीक दाईं ओर बैठा है।

इसलिए, विकल्प B सही उत्तर है।

44. B

Sol. लड़के और लड़कियां दोनों ग्रामीण हो सकते हैं।

तो, सबसे अच्छा प्रतिनिधित्व है:



इसलिए, विकल्प B सही उत्तर है।

45. A

Sol. पैटर्न है:

दी गई श्रृंखला में दो श्रृंखलाएं हैं।

श्रृंखला 1: 60, 64, 68, 72

पैटर्न है:

$$60+4=64$$

$$64+4=68$$

$$68+4=72$$

श्रृंखला 2: 80, 70, 60, 50

पैटर्न है:

$$80-10=70$$

$$70-10=60$$

$$60-10=50$$

इसलिए, विकल्प A सही उत्तर है।

46. A

Sol. विकल्प A की जांच करने पर:

$$39 \times 6 + 27 \div 3 - 52 = 123$$

परस्पर बदलाव के बाद:

$$27 \times 6 + 39 \div 3 - 52 = 123$$

$$\text{या, } 162 + 13 - 52 = 123$$

$$\text{या, } 123=123$$

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 A सही उत्तर है।

47. B

Sol. जैसा कि, जीव विज्ञान, विज्ञान का एक हिस्सा है।

इसी प्रकार, राजनीति विज्ञान, सामाजिक विज्ञान का एक हिस्सा है।

इसलिए, विकल्प B सही उत्तर है।

48. C

Sol. पंक्ति 1:

$$(8*2)*14=224$$

पंक्ति 2:

$$(11*2)*15=330$$

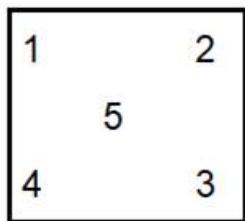
पंक्ति 3:

$$(9*2)*12=216$$

इसलिए, विकल्प C सही उत्तर है।

49. D

Sol.



★ का गतिमान क्रम है: 1 5 3 5 1

■ का गतिमान क्रम है: 2 4 2 4 2

□ प्रत्येक चरण में क्षैतिज रूप से फ़िलप होता है।

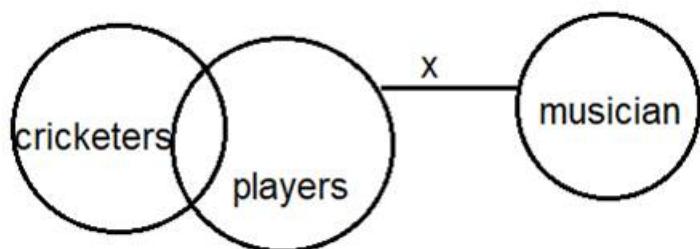
अतः, अगली आकृति है -



इसलिए, विकल्प D सही उत्तर है।

50. D

Sol. न्यूनतम संभावित आरेख है -



निष्कर्ष:

I. कोई किरकेटर, संगीतकार नहीं है। (यह अनुसरण नहीं करता है क्योंकि कुछ किरकेटर, खिलाड़ी हैं तथा कोई खिलाड़ी, संगीतकार नहीं है।)

II. कुछ खिलाड़ी, किरकेटर हैं। (यह अनुसरण करता है क्योंकि कुछ किरकेटर, खिलाड़ी है।)

III. कोई संगीतकार, खिलाड़ी नहीं है। (यह अनुसरण करता है क्योंकि कोई खिलाड़ी, संगीतकार नहीं है।)

अतः, केवल निष्कर्ष II और III अनुसरण करते हैं।

इसलिए, विकल्प D सही उत्तर है।

51. C

Sol. दिया गया है की:

एक दुकानदार ने दो प्रकार के चावल को 1:5 . के अनुपात में मिलाया,

टाइप 1 चावल की कीमत = 65 रुपये प्रति किलो

और टाइप 2 चावल की कीमत = 95 रुपये प्रति किलो

$$\text{मिश्रत चावल की लागत} = 65 \times \frac{1}{6} + 95 \times \frac{5}{6}$$

$$\frac{65 + 475}{6} = \frac{540}{6} = 90 \text{ रुपये प्रति किलो}$$

दुकानदार का लाभ प्रतिशत

$$= \frac{SP - CP}{CP} \times 100 = \frac{99 - 90}{90} \times 100$$

$$= \frac{9}{90} \times 100 = 10\%$$

अतः विकल्प C सही उत्तर है।

52. C

Sol. माना बड़ी संख्या x है।

तो, छोटी संख्या = (x - 12)

अब, हम जानते हैं कि,

दो संख्याओं का HCF \times दो संख्याओं का LCM = दो संख्याओं का गुणन

$$\Rightarrow 6 \times 90 = (x) \times (x - 12)$$

$$\Rightarrow 540 = x^2 - 12x$$

$$\Rightarrow x^2 - 30x + 18x - 540 = 0$$

$$\Rightarrow x(x - 30) + 18(x - 30) = 0$$

$$\Rightarrow (x - 30)(x + 18) = 0$$

$$\Rightarrow x - 30 = 0 \text{ or } x + 18 = 0$$

$$\Rightarrow x = 30 \text{ or } x = -18 \text{ (संभव नहीं)}$$

इसलिए, बड़ी संख्या 30 है।

अतः विकल्प C सही उत्तर है।

53. A

Sol. दिया गया है की:

अखिल और सुनीता की औसत आयु = 51 वर्ष

सुनीता और वीना की औसत आयु = 31 वर्ष और

वीना और अखिल की औसत आयु = 33 वर्ष

अब, अखिल और सुनीता की कुल आयु = $51 \times 2 = 102$ वर्ष,

सुनीता और वीना की कुल आयु = $31 \times 2 = 62$ वर्ष और

वीना और अखिल की कुल आयु = $33 \times 2 = 66$ वर्ष

अब, अखिल, सुनीता और वीना की कुल आयु

$$= \frac{102 + 62 + 66}{2} = \frac{230}{2} = 115 \text{ वर्ष}$$

इसलिए, वीणा की आयु = अखिल, सुनीता और वीना की कुल आयु - अखिल और सुनीता की कुल आयु = 115 - 102 = 13 वर्ष

अतः विकल्प A सही उत्तर है।

54. D

Sol. दिया गया हैं की:

द्रेन की लंबाई = 700 मीटर, एक पुल को पार करने में लगने वाला समय = 72 सेकंड

$$\text{द्रेन की गति} = 60 \text{ किमी/घंटा} = 60 \times \frac{5}{18} \text{ मी/से} = \frac{50}{3} \text{ मी/से}$$

द्रेन द्वारा 72 सेकंड में तय की गई कुल दूरी = गति × समय

$$= \frac{50}{3} \times 72 = 1200 \text{ मी}$$

इसलिए, पुल की लंबाई = कुल दूरी - द्रेन की लंबाई

$$= 1200 - 700 = 500 \text{ मी}$$

अतः विकल्प D सही उत्तर है।

55. A

Sol. दिया गया है की:

कंप्यूटर का क्रय मूल्य = 42000

प्रिंटर का क्रय मूल्य = 3000 रुपये

दोनों वस्तुओं का एकसाथ विक्रय मूल्य = 51750 रुपये

अब, दोनों वस्तुओं का क्रय मूल्य एक साथ = 42000 + 3000 = 45000 रुपये

$$\text{लाभ (\% में)} = \frac{\text{SP} - \text{CP}}{\text{CP}} \times 100$$

$$= \frac{51750 - 45000}{45000} \times 100 = \frac{6750}{450}$$

$$= 15\%$$

अतः विकल्प A सही उत्तर है।

56. C

Sol. $4 \frac{1}{3} + \left[7 \frac{2}{3} - \frac{4}{3} \left(\frac{25}{3} - \frac{1}{6} - \frac{2}{3} \right) \right]$

$$= \frac{13}{3} + \left[\frac{23}{3} - \frac{4}{3} \left(\frac{50 - 1 - 4}{6} \right) \right]$$

$$= \frac{13}{3} + \left[\frac{23}{3} - \frac{4}{3} \left(\frac{45}{6} \right) \right]$$

$$= \frac{13}{3} + \left[\frac{23}{3} - 10 \right]$$

$$= \frac{13}{3} + \left[\frac{23 - 30}{3} \right]$$

$$= \frac{13}{3} - \frac{7}{3}$$

$$= \frac{13 - 7}{3} = \frac{6}{3}$$

$$= 2$$

अतः विकल्प C सही उत्तर है।

57. B

Sol. दिया गया है की:

$$\text{वृत्ताकार पार्क की बाहरी त्रिज्या } (r_0) = 23 \text{ मी}$$

और उसके अंदर 4 मीटर का रास्ता है

$$\text{इसलिए, पार्क की भीतरी त्रिज्या } (r_i) = 23 - 4 = 19 \text{ मी}$$

$$\text{पथ का क्षेत्रफल} = \pi (r_o^2 - r_i^2)$$

$$= \frac{22}{7} (23^2 - 19^2)$$

$$= \frac{22}{7} (529 - 361)$$

$$= \frac{22}{7} \times 168$$

$$= 528 \text{ मी}^2$$

रास्ते को पक्का करने की लागत = पथ का क्षेत्रफल × फ़र्श की दर

$$= 528 \times 500 = 264000 \text{ रुपये}$$

अतः विकल्प B सही उत्तर है।

58. D

Sol. माना अंकित मूल्य $100x$ रुपये है।

तो, पुस्तक विक्रेता के लिए लागत मूल्य

$$= (100x) - (100x) \times 25\%$$

$$= 100x - 25x = 75x \text{ रुपये}$$

$$20\% \text{ लाभ के लिए बिक्री मूल्य} = 75x + (75x) \times 20\% = 75x + 15x = 90x \text{ रुपये}$$

$$\text{इसलिए, छूट (\% में)} = \left(\frac{100x - 90x}{100x} \right) \times 100 = \left(\frac{10x}{100x} \right) \times 100$$

$$= 10\%$$

अतः विकल्प D सही उत्तर है।

59. C

Sol. राशि = 10000 रुपये, समय = 2 वर्ष और ब्याज दर = 5% प्रतिवर्ष चक्रवृद्धि ब्याज और 5% प्रतिवर्ष साधारण ब्याज

$$\text{चक्रवृद्धि ब्याज} = [\text{राशि} \times (1 + R)^T] - \text{राशि}$$

$$= [10000 \times (1 + 5\%)^2] - 10000$$

$$= [10000 \times (1.05)^2] - 10000$$

$$= (10000 \times 1.1025) - 10000$$

$$= 11025 - 10000 = 1025 \text{ रुपये}$$

$$\text{साधारण ब्याज} = \text{राशि} \times \text{दर} \times \text{समय}$$

$$= 10000 \times 5\% \times 2 = 1000 \text{ रुपये}$$

यदि कनिका ने साधारण ब्याज पर ऋण लिया होता तो धन की बचत होती = CI - SI = 1025 - 1000 = 25 रुपये

अतः विकल्प C सही उत्तर है।

60. C

Sol. बता दें कि दुकानदार ने $3x$ टी-शर्ट का ऑर्डर दिया था।

$$\text{तब, शर्ट की संख्या} = (3x) \times \frac{2}{3} = 2x$$

$$\text{और जींस की संख्या} = (3x) \times \frac{1}{3} = x$$

$$\text{अब, ऑर्डर का कुल मूल्य} = 46800 \text{ रुपये (दिया गया)}$$

$$\Rightarrow 500 \times (x) + 350 \times (2x) + 200 \times (3x) = 46800$$

$$\Rightarrow 500x + 700x + 600x = 46800$$

$$\Rightarrow 1800x = 46800$$

$$\Rightarrow x = 46800/1800 = 26$$

इसलिए, उसने 78 (3×26) टी-शर्ट का ऑर्डर दिया।

अतः विकल्प C सही उत्तर है।

61. C

Sol. डेटा:

3, 21, 10, 7, 6, 9, (k + 6), 15, 20, 16

अब, इसे व्यवस्थित करें,

3, 6, 7, 9, 10, (k + 6), 15, 16, 20, 21

पदों की कुल संख्या = 10

माध्यिका 5वें ($10/2$) और छठे $\left(\frac{10}{2} + 1\right)$ पद का औसत होगा।

चूंकि माध्यिका 11 है, पद (k + 6) शरूखला के मध्य में होना चाहिए।

$$\text{इसलिए, } \frac{(10 + k + 6)}{2} = 11$$

$$\Rightarrow k + 16 = 22$$

$$\Rightarrow k = 22 - 16 = 6$$

अतः विकल्प C सही उत्तर है।

62. C

Sol. प्रथम गुणज (a) = 5

अंतर (d) = 5

पदों की संख्या = 10

$$\text{पहले 10 पदों का योग } (S_{10}) = \frac{n}{2} [2a + (n - 1)d]$$

$$= \frac{10}{2} [2 \times 5 + (10 - 1) \times 5]$$

$$= 5 [10 + 9 \times 5]$$

$$= 5 (10 + 45)$$

$$= 5 \times 55 = 275$$

इसलिए, 5 के पहले 10 गुणजों का औसत

$$= \frac{\text{पदों का योग}}{\text{पदों की संख्या}} = \frac{275}{10} = 27.5$$

अतः विकल्प C सही उत्तर है।

63. A

Sol. बिक्री के बाद जूस की शेष मात्रा = $19 - 2.5 = 16.5$ लीटर

$$\text{शेष जूस में गिलोय की मात्रा} = 16.5 \times \frac{2}{11} = 3 \text{ लीटर}$$

कुछ पानी मिलाने के बाद गिलोय और पानी का अनुपात = $1 : 5$

$$\text{अनुपात का योग} = 1 + 5 = 6$$

$$\text{पानी मिलाने के बाद कुल मात्रा} = 3 \times \frac{6}{1} = 18 \text{ लीटर}$$

इसलिए, मिलाए गए पानी की मात्रा = $18 - 16.5 = 1.5$ लीटर

$$= 1\frac{1}{2} \text{ लीटर}$$

अतः विकल्प A सही उत्तर है।

64. B

Sol. जैसा कि हम बार ग्राफ में देख सकते हैं, सेक्षण A के छातरों ने सेक्षण B की तुलना में अंग्रेजी, गणित, विज्ञान और सामाजिक विज्ञान में बेहतर अंक प्राप्त किए।

इसलिए 4 विषयों में सेक्षण A के छातरों ने बेहतर परिणाम दिखाया।

अतः विकल्प B सही उत्तर है।

65. A

Sol. माना आयत की लंबाई x इकाई और चौड़ाई y इकाई है।इसलिए, मूल आयत का क्षेत्रफल = लंबाई \times चौड़ाई

$$= xy \text{ इकाई}^2$$

$$\text{अब बढ़ी हुई लंबाई} = x + (x) \times 12\% = x + 0.12x = 1.12x \text{ इकाई}$$

$$\text{और घटी हुई चौड़ाई} = y - (y) \times 10\% = y + 0.10y = 0.90y \text{ इकाई}$$

$$\text{परिवर्तन का क्षेत्रफल आयत} = (1.12x) \times (0.90y) = 1.008xy \text{ इकाई}$$

मूल आयत और परिवर्तित आयत के क्षेत्रफलों का अनुपात

$$xy : 1.008xy$$

$$126 : 126$$

अतः विकल्प A सही उत्तर है।

66. D

Sol. कंपनी A द्वारा 1998 से 1999 तक उत्पादन में वृद्धि

$$= 57 - 34 = 23 \text{ लाख मीटर}$$

1996 से 1997 तक कंपनी C द्वारा उत्पादन में वृद्धि

$$= 62 - 40 = 22 \text{ लाख मीटर}$$

कंपनी A द्वारा 1998 से 1999 तक उत्पादन में वृद्धि और कंपनी C द्वारा 1996 से 1997 तक उत्पादन में वृद्धि के बीच अंतर

$$= 23 - 22 = 1 \text{ लाख मीटर}$$

अतः विकल्प D सही उत्तर है।

67. C

Sol. विविध और मकान किराए पर व्यय की गई राशि का केंद्रीय कोण

$$= 360^\circ \times \frac{(11\% + 16\%)}{100\%} = 360^\circ \times \frac{27}{100} = 97.2^\circ$$

घरेलू व्यय पर खर्च की गई राशि का केंद्रीय कोण

$$= 360^\circ \times \frac{17\%}{100\%} = 61.2^\circ$$

इसलिए, विविध और मकान किराए पर एक साथ व्यय की गई राशि का केंद्रीय कोण घरेलू व्यय पर 36° से अधिक है। ($97.2^\circ - 61.2^\circ$)

अतः विकल्प C सही उत्तर है।

68. A

Sol. माना कुल दूरी x किमी है।

तो, प्रश्न के अनुसार,

लिया गया कुल समय = 1 घंटा 24 मिनट

$$\Rightarrow \frac{\frac{2}{3}x}{52} + \frac{\frac{1}{3}x}{65} = 1 + \frac{24}{60}$$

$$\Rightarrow \frac{2x}{3 \times 52} + \frac{x}{3 \times 65} = 1 + \frac{2}{5}$$

$$\Rightarrow \frac{10x + 4x}{780} = \frac{5 + 2}{5}$$

$$\Rightarrow \frac{14x}{780} = \frac{7}{5}$$

$$\Rightarrow \frac{2x}{780} = \frac{1}{5}$$

$$\Rightarrow 10x = 780$$

$$\Rightarrow x = 780/10 = 78$$

इसलिए, कुल दूरी 78 किमी है।

अतः विकल्प A सही उत्तर है।

69. C

Sol. Given:

अर्धगोलाकार आधार वाला एक खिलौना जिसकी त्रिज्या 3.5 सेमी है और एक शंकु जिसकी ऊँचाई त्रिज्या के समान है।

इसलिए, शंकु की त्रिज्या = अर्धगोले की त्रिज्या = 3.5 सेमी

तथा शंकु की ऊँचाई = शंकु की त्रिज्या = 3.5 सेमी

अब, खिलौने का आयतन = अर्धगोले का आयतन + शंकु का आयतन

$$= \frac{2}{3} \pi r^3 + \frac{1}{3} \pi r^2 h$$

$$= \frac{2}{3} \pi (3.5)^3 + \frac{1}{3} \pi (3.5)^2 \times 3.5$$

$$= \frac{2}{3} \pi (3.5)^3 + \frac{1}{3} \pi (3.5)^3$$

$$= \left(\frac{2}{3} + \frac{1}{3} \right) \times \frac{22}{7} \times (3.5)^3$$

$$= \left(\frac{2+1}{3} \right) \times 22 \times 0.5 \times (3.5)^3$$

$$= 11 \times 12.25$$

$$= 134.75 \text{ सेमी}^3$$

$$= 134 \frac{3}{4} \text{ सेमी}^3$$

अतः विकल्प C सही उत्तर है।

70. D

Sol. दिया गया है की:

राशि = 50000 रुपये प्रत्येक, समय = 2 वर्ष और पहले बैंक में ब्याज दर = 11% प्रतिवर्ष साधारण ब्याज और दूसरे बैंक में = 10% प्रतिवर्ष चक्रवृद्धि ब्याज

पहले बैंक से ब्याज = राशि × दर × समय

$$= 50000 \times 11\% \times 2 = 11000 \text{ रुपये}$$

$$\text{दूसरे बैंक का ब्याज} = [\text{राशि} \times (1 + R)^T] - \text{राशि}$$

$$= [50000 \times (1 + 10\%)^2] - 50000$$

$$= [50000 \times (1.1)^2] - 50000$$

$$= (50000 \times 1.21) - 50000$$

$$= 60500 - 50000 = 10500 \text{ रुपये}$$

$$\text{दोनों बैंकों से कुल ब्याज} = 11000 + 10500 = 21500 \text{ रुपये}$$

अतः विकल्प D सही उत्तर है।

71. B

Sol. माना मतदाता सूची में नामांकित मतदाताओं की संख्या x है।

$$\text{तो, डाले गए वास्तविक मतों की संख्या} = (x) - (x) \times 16\% = x - 0.16x = 0.84x$$

$$\text{वैध मतों की संख्या} = (0.84x) - (0.84x) \times 10\% = 0.84x - 0.084x$$

$$= 0.756x$$

$$\text{सफल उम्मीदवार को मिले वोटों की संख्या} = (0.756x) \times 60\% = 0.4536x$$

$$\text{दूसरे उम्मीदवार को मिले वोटों की संख्या} = 0.756x - 0.4536x = 0.3024x$$

$$\text{दोनों उम्मीदवारों के मतों का अंतर (जीत का अंतर)} = 567$$

$$\Rightarrow 0.4536x - 0.3024x = 567$$

$$\Rightarrow 0.1512x = 567$$

$$\Rightarrow x = 567/0.1512 = 3750$$

इसलिए, मतदाता सूची में नामांकित मतदाताओं की संख्या 3750 है।

अतः विकल्प B सही उत्तर है।

72. B

Sol. दिया गया है की:

$$\text{राशि} = 2820 \text{ रुपये}$$

$$\text{विभाजित होने वाला अनुपात} = 3 : 4 : 5$$

$$\text{अनुपातों का योग} = 3 + 4 + 5 = 12$$

$$\text{वास्तविक अनुपात} (\text{त्रुटिवश विभाजित}) = \frac{1}{3} : \frac{1}{4} : \frac{1}{5} = \frac{20 : 15 : 12}{60} = 20 : 15 : 12$$

$$\text{अनुपातों का योग} = 20 + 15 + 12 = 47$$

$$\text{राशि (A वास्तविक में होनी चाहिए)} = 2820 \times \frac{3}{12} = 705 \text{ रुपये}$$

$$\text{राशि (A मिली)} = 2820 \times \frac{20}{47} = 1200 \text{ रुपये}$$

$$\text{त्रुटिवश A का लाभ} = 1200 - 705 = 495 \text{ रुपये}$$

अतः विकल्प B सही उत्तर है।

73. C

Sol. मान लीजिए एक पुरुष की क्षमता 'm' इकाई/दिन और एक महिला की 'w' इकाई/दिन है।

तो, प्रश्न के अनुसार, दोनों स्थितियों में कुल कार्य समान होगा,

$$(6m + 8w) \times 10 = (3m + 13w) \times 10$$

$$\Rightarrow 6m - 3m = 13w - 8w$$

$$\Rightarrow 3m = 5w$$

$$\text{इसलिए, कुल कार्य} = (3m + 13w) \times 10$$

$$= (5w + 13w) \times 10$$

$$= 180w$$

अब, समान कार्य को पूरा करने में 6 महिलाओं द्वारा लिया गया समय

$$= 180w/6w = 30 \text{ दिन}$$

अतः विकल्प C सही उत्तर है।

74. A

Sol. माना कुल कार्य $12x$ इकाई है।

$$\text{तो, व्यक्ति की दक्षता} = 12x/6 = 2x \text{ इकाई/दिन}$$

$$\text{और महिला की दक्षता} = 12x/12 = x \text{ इकाई/दिन}$$

एक साथ काम करने वाले पुरुष और महिला की संयुक्त दक्षता,

$$= 2x + x = 3x \text{ इकाई /दिन}$$

पुरुष और महिला द्वारा एक साथ कार्य करके एक ही कार्य को करने में लगने वाला समय,

$$= 12x/3x = 4 \text{ दिन}$$

अतः विकल्प A सही उत्तर है।

75. C

$$\frac{1 \div \frac{3}{7} \text{ of } (6 + 8 \times \overline{3 - 2}) + \left[\frac{1}{5} \div \frac{7}{25} - \left\{ \frac{3}{7} + \frac{8}{14} \right\} \right]}{18 \div \overline{10 - 4} + 32 \div (4 + 10 \div 2 - 1)}$$

$$= \frac{1 \div \frac{3}{7} \text{ of } (6 + 8 \times 1) + \left[\frac{1}{5} \div \frac{7}{25} - \left\{ \frac{6+8}{14} \right\} \right]}{18 \div 6 + 32 \div (4 + 5 - 1)}$$

$$= \frac{1 \div \frac{3}{7} \text{ of } (6 + 8) + \left[\frac{1}{5} \times \frac{25}{7} - \left\{ \frac{14}{14} \right\} \right]}{3 + 32 \div 8}$$

$$= \frac{1 \div \frac{3}{7} \text{ of } 14 + \left[\frac{5}{7} - 1 \right]}{3 + 4}$$

$$= \frac{1 \div 6 + \left[\frac{5 - 7}{7} \right]}{7}$$

$$= \frac{\frac{1}{6} - \frac{2}{7}}{7}$$

$$= \frac{7 - 12}{42} \times \frac{1}{7} = \frac{-5}{294}$$

अतः विकल्प C सही उत्तर है।

76. D

Sol. • 'बाणगंगा' महोत्सव का संबंध महाराष्ट्र से है।

- यह दो दिवसीय संगीत समारोह है जो प्रत्येक वर्ष जनवरी के महीने में मालाबार हिल्स में मनाया जाता है।
- यह महाराष्ट्र पर्यटन विकास निगम और इंडियन हेरिटेज सोसाइटी मुंबई द्वारा संयुक्त रूप से आयोजित किया जाता है।
- इसका उद्देश्य ऐतिहासिक बाणगंगा टैंक और उसके पर्यावरण के संरक्षण के बारे में जागरूकता को बढ़ावा देना है।
- यह मुंबई में सबसे बहुप्रतीक्षित त्योहारों में से एक है, जिसमें लाखों संगीत प्रेमी मालाबार हिल्स पर आते हैं।
- यह महाराष्ट्र के सबसे प्रसिद्ध संगीत समारोहों में से एक है।

77. B

Sol. • आवृत्ति का एसआई (SI) मात्रक हर्ट्ज़ है।

- आवृत्ति समय की प्रति इकाई एक दोहराई जाने वाली घटना के परिणामों की संख्या है।
- यह एक निश्चित समय में एक निश्चित स्थान से गुजरने वाली तरंगों की संख्या का वर्णन करता है।

- ओम एक एसआई व्युत्पन्न इकाई है जिसका उपयोग किसी सामग्री या विद्युत उपकरण के विद्युत प्रतिरोध को मापने के लिए किया जाता है।
- बोल्ट विद्युत क्षमता, विद्युत संभावित अंतर और इलेक्ट्रोमोटिव बल के लिए व्युत्पन्न इकाई है।
- जूल इलेक्ट्रॉनिक्स और सामान्य वैज्ञानिक अनुप्रयोगों में ऊर्जा की एसआई इकाई है।

78. D

Sol. ● 1909 में ब्रिटिश सरकार ने भारत में मॉर्ले-मिंटो सुधारों की घोषणा की।

- इसकी स्थापना नरमपंथियों को शांत करने और धर्म के आधार पर पृथक निर्वाचक मंडल की शुरुआत करने के लिए की गई थी।
- इस अधिनियम को भारत के राज्य सचिव जॉन मॉर्ले ने तैयार किया था।
- इसे ब्रिटिश भारत सरकार में मूल निवासियों के प्रतिनिधित्व को बढ़ाने के लिए पेश किया गया था।
- इस अधिनियम ने केंद्रीय और प्रांतीय दोनों विधान परिषदों के आकार को बढ़ाया।
- लॉर्ड मिंटो को भारत में सांप्रदायिक मतदाता के जनक के रूप में जाना जाने लगा।

79. D

Sol. ● राष्ट्रीय हथकरघा दिवस 7 अगस्त को मनाया जाता है।

- यह एक ऐसा दिन है जो स्वदेशी आंदोलन को भी मान्यता देता है जो उसी तारीख को 1905 में शुरू किया गया था।
- यह देश में हथकरघा बुनकरों को सम्मानित करने और भारत के हथकरघा उद्योग को उजागर करने के लिए प्रतिवर्ष मनाया जाता है।
- 23 अगस्त को दास व्यापार और उसके उन्मूलन के स्मरण के लिए अंतर्राष्ट्रीय दिवस के रूप में मनाया जाता है।
- भारत में हर साल 15 सितंबर को इंजीनियर दिवस मनाया जाता है।

80. B

Sol. ● LED का पूर्ण रूप Light Emitting Diode (प्रकाश उत्सर्जक डायोड) है।

- यह एक अर्धचालक प्रकाश स्रोत है जो इसके माध्यम से प्रवाहित होने पर प्रकाश का उत्सर्जन करता है।
- यह एक विशेष रूप से डोप किया हुआ डायोड है और एक विशेष प्रकार के अर्धचालक से बना होता है।
- इसमें एनोड और कैथोड नाम के दो टर्मिनल शामिल हैं।

- एलईडी का निर्माण बहुत सरल है क्योंकि इसे एक सब्स्ट्रेट पर तीन अर्धचालक सामग्री परतों के जमाव के माध्यम से डिज़ाइन किया गया है।

81. C

Sol. • भारत के संविधान के अनुच्छेद 343(1) में कहा गया है कि देवनागरी लिपि में हिंदी संघ की राजभाषा होगी।

- अनुच्छेद 343(3) संसद को 25 जनवरी 1965 के बाद भी आधिकारिक उद्देश्यों के लिए अंग्रेजी भाषा के उपयोग को जारी रखने के लिए कानून बनाने की शक्ति प्रदान करता है।

- देवनागरी लिपि उल्लेखनीय संगति के साथ हिंदी भाषा की ध्वनियों का प्रतिनिधित्व करती है।

- भारत के संविधान की आठवीं अनुसूची में 22 अनुसूचित भाषाओं की सूची शामिल है।

- इसमें संघ की भाषा, क्षेत्रीय भाषाएं, न्यायपालिका की भाषा और कानून के ग्रन्थ और विशेष निर्देश शामिल हैं।

82. C

Sol. • प्रत्यक्षकर पुरस्कार को आमतौर पर वास्तुकला के क्षेत्र के लिए दिए जाने वाले नोबेल पुरस्कार के रूप में जाना जाता है।

- कहा जाता है कि इसे राष्ट्रीयता, नस्ल, पंथ या विचारधारा के बावजूद सम्मानित किया जाता है।

- यह एक जीवित वास्तुकार या वास्तुकारों को सम्मानित करने के लिए प्रतिवर्ष दिया जाने वाला एक पुरस्कार है जिसका निर्माण कार्य प्रतिभा, दृष्टि और प्रतिबद्धता के उन गुणों के संयोजन को प्रदर्शित करता है।

- इसे प्रत्यक्षकर परिवार द्वारा वित्त पोषित किया जाता है और हयात फाउंडेशन द्वारा प्रायोजित किया जाता है।

- यह वास्तुकला में उत्कृष्टता के लिए प्रदान किया जाता है, जो 1979 से प्रतिवर्ष दिया जा रहा है।

83. B

Sol. • भोजताल, जिसे पहले अपर लेक के नाम से जाना जाता था, मध्य प्रदेश में स्थित है।

- यह एक बड़ी झील है जो मध्य प्रदेश की राजधानी के पश्चिमी किनारे पर स्थित है।

- यह शहर के निवासियों के लिए प्रयोग का एक प्रमुख स्रोत है, जो लगभग 40% निवासियों की सेवा करता है।

- ऐसा कहा जाता है कि परमार राजा भोज ने मालवा के राजा के रूप में अपने कार्यकाल के दौरान इसका निर्माण किया था।

- झील का निर्माण कोलन नदी पर मिट्टी के बांध का निर्माण करके किया गया था।

- इसका क्षेत्रफल 31 वर्ग किमी है और इसका जलग्रहण क्षेत्र 361 वर्ग किमी है।

84. C

Sol. • जवाहरलाल नेहरू मणिपुर नृत्य अकादमी इम्फाल में स्थित है।

- यह संगीत नाटक अकादमी, नई दिल्ली की एक घटक इकाई है।
- यह मणिपुरी नृत्य और संगीत और थांग-ता जैसे संबद्ध विषयों के शिक्षण के लिए प्रमुख संस्थान है।
- मणिपुर अपनी समृद्ध संस्कृति और पूर्वजों और खेल से विरासत में मिली परंपरा के लिए जाना जाता है।
- हैदराबाद भारत में छठा सबसे अधिक आबादी वाला महानगरीय क्षेत्र है और भारत में पांचवां सबसे बड़ी शहरी अर्थव्यवस्था है।
- बैंगलुरु तीसरा सबसे अधिक आबादी वाला शहर है और भारत में पांचवां सबसे अधिक आबादी वाला शहरी समूह है।

85. B

Sol. • राष्ट्रपति भारत के मुख्य चुनाव आयुक्त की नियुक्ति कर सकता है।

- भारत के मुख्य चुनाव आयुक्त भारत के चुनाव आयोग के प्रमुख होते हैं।
- यह आमतौर पर भारतीय सिविल सेवा का सदस्य होता है और ज्यादातर भारतीय प्रशासनिक सेवा से होता है।
- राष्ट्रपति द्वारा एक बार नियुक्त किए जाने के बाद मुख्य चुनाव आयुक्त के अधिकार को हटाना बहुत कठिन है।
- भारत का उपराष्ट्रपति भारत गणराज्य के राज्य के प्रमुख का उप-राष्ट्रपति होता है।
- यह राष्ट्रपति के बाद दूसरा सर्वोच्च संवैधानिक कार्यालय है।

86. B

Sol. • ओडिशा अगस्त 2020 तक सुनामी से निपटने हेतु तैयारियों के लिए 'सुनामी रेडी (Tsunami Ready)' गांव वाला पहला राज्य बन गया है।

- भारत हिंद महासागर क्षेत्र का पहला ऐसा देश बन गया है जहां ओडिशा में सुनामी के लिए तैयार गांव हैं।
- दो तटीय गाँव वैकटरायपुर गाँव और नोलियासाही गाँव हैं जिन्हें सुनामी रेडी के रूप में मान्यता प्राप्त है।
- 7 अगस्त को होने वाले वर्चुअल इवेंट में वैकटरायपुर और नोलियासाही के समुदायों को मान्यता का प्रमाण पत्र सौंपा जाएगा।
- ओडिशा अपने समृद्ध इतिहास और संस्कृति के लिए जाना जाता है और इसमें प्रचुर मात्रा में प्राकृतिक संसाधन और एक बड़ा समुद्र तट है।

87. D

Sol. • बेरियम नाइट्रेट का उपयोग सिग्नल फ्लेयर्स और आतिशबाजी में किया जाता है जो चमकीले हरे रंग में जलते हैं।

- इसे बेरियम डाइनाइट्रेट, नाइट्रोबैराइट या बेरियम साल्ट भी कहा जाता है।
- यह एक अकार्बनिक यौगिक है जिसका रासायनिक सूत्र Ba(NO₃)₂ है।
- यह रंगहीन, विषैला और पानी में घुलनशील और बेरियम का नमक और नाइट्रेट आयन है।
- इसका उपयोग विशेष चश्मे के निर्माण में और आतिशबाज़ी बनाने की कला में हरी-अग्नि के लिए किया जाता है।
- इसका उपयोग रक्षा अनुप्रयोगों में व्यापक रूप से किया जाता है और बेरियम ऑक्साइड के लिए एक अग्रदृत सामग्री है।

88. B

- Sol. ● प्रवासी श्रमिकों को सशक्त बनाने और आजीविका के अवसर प्रदान करने के लिए भारत सरकार द्वारा जून 2020 में 'गरीब कल्याण रोजगार अभियान' (GKRA) नामक एक विशाल रोजगार-सह-ग्रामीण लोक निर्माण अभियान शुरू किया गया था।
- यह भारत में श्रमिक कामगारों पर कोविड-19 के प्रभाव से निपटने के लिए एक पहल है।
 - यह एक ग्रामीण लोक निर्माण योजना है जिसे 20 जून 2020 को 50,000 करोड़ रुपये के प्रारंभिक वित्त पोषण के साथ शुरू किया गया था।
 - यह 20 जून 2020 से शुरू होकर 125 दिनों की अवधि के लिए परिचालन में रहेगा।
 - यह अभियान 12 विभिन्न मंत्रालयों/विभागों के बीच एक समन्वित प्रयास होगा।

89. B

- Sol. ● भारतीय निर्यात-आयात बैंक ने मोजाम्बिक में बिजली आपूर्ति की गुणवत्ता में सुधार के लिए \$250 मिलियन की ऋण सहायता प्रदान की।
- यह समृद्ध और विस्तृत प्राकृतिक संसाधनों से संपन्न है।
 - मोजाम्बिक की राजधानी और सबसे बड़ा शहर मापुटो है।
 - श्रीलंका दक्षिण एशिया में एक द्वीप देश है और भारत तथा मालदीव के साथ समुद्री सीमा साझा करता है।
 - बांग्लादेश दुनिया का आठवां सबसे अधिक आबादी वाला देश है और दुनिया के सबसे धनी आबादी वाले देशों में से एक है।
 - नेपाल दक्षिण एशिया में एक भू-आबद्ध, बहुजातीय, बहुभाषी, बहु-धार्मिक देश है।

90. C

- Sol. ● राजकोषीय नीति किसी देश की सरकार को व्यक्तिगत व्यय के प्रवाह को नियंत्रित करने में मदद करती है।
- यह अर्थव्यवस्था को प्रभावित करने के लिए सरकारी खर्च और कराधान का उपयोग है।

- यह ब्रिटिश अर्थशास्त्री जॉन मेनार्ड कीन्स के सिद्धांतों पर आधारित है।
- इकिवटी बाजार एक बाजार अर्थव्यवस्था में जारीकर्ता और शेयरों के खरीदारों के लिए मिलन बिंदु हैं।
- एंजेल निवेशक वे धनी निजी निवेशक होते हैं जो इकिवटी के बदले में छोटे व्यापार उद्यमों के वित्तपोषण पर केंद्रित होते हैं।

91. B

Sol. • स्वच्छ भारत मिशन 2 अक्टूबर 2014 को ग्रामीण क्षेत्रों के लिए पेयजल और स्वच्छता मंत्रालय द्वारा पूरे भारत में शुरू किया गया था।

- यह खुले में शौच को समाप्त करने और ठोस अपशिष्ट प्रबंधन में सुधार के लिए 2014 में भारत सरकार द्वारा शुरू किया गया एक देशव्यापी अभियान है।
- यह 2009 में शुरू किए गए निर्मल भारत अभियान का एक पुनर्गठित संस्करण है जो अपने इच्छित लक्ष्यों को प्राप्त करने में विफल रहा।
- स्मार्ट सिटी मिशन भारत सरकार द्वारा स्मार्ट शहरों को विकसित करने और उन्हें नागरिक-अनुकूल बनाने के लिए शुरू किया गया एक शहरी नवीनीकरण और रेट्रोफिटिंग कार्यक्रम है।
- पर्धानमंत्री जन विकास कार्यक्रम एक ऐसी योजना है जिसे चिन्हित अल्पसंख्यक बहुल क्षेत्रों में विकास की कमियों को दूर करने के लिए बनाया गया है।

92. B

Sol. • 'बीइंग गांधी' के लेखक पारो आनंद हैं।

- वह बच्चों, युवा वयस्कों और वयस्कों के लिए उपन्यास, लघु कथाएँ और नाटकों सहित पुस्तकों के भारतीय लेखक हैं।
- बीइंग गांधी एक उपन्यास है जो एक नेता के रूप में गांधी या उनके जीवन की जानकारी ही नहीं देता है बल्कि वास्तव में गांधीवादी तरीके से हमारे लिए क्या प्रासंगिक होना चाहिए, इसकी भी जानकारी देता है।
- 1983 विश्व कप में आशीष रे एकमात्र एशियाई बॉल-बाय-बॉल कमेटेटर थे।
- बियॉन्ड 2020: 25 हैपनिंग करियर इन अकाउंटिंग एंड फाइनेंस वी पट्टाभि राम की एक प्रसिद्ध पुस्तक है।

93. D

Sol. • मेजर ध्यानचंद को 'हॉकी के जादूगर' के रूप में जाना जाता है।

- उन्हें व्यापक रूप से इतिहास में सबसे महान फील्ड हॉकी खिलाड़ियों में से एक माना जाता था।
- वह अपने असाधारण गेंद नियंत्रण और गोल स्कोरिंग कारनामों के लिए जाने जाते थे।

- मोहम्मद शाहिद को इस खेल को खेलने वाले भारत के सर्वश्रेष्ठ खिलाड़ियों में से एक माना जाता है और वह अपने डिरब्लिंग कौशल के लिए जाने जाते थे।
- बलबीर सिंह को आधुनिक समय के ध्यानचंद के रूप में सर्वकालिक महान हॉकी खिलाड़ियों में से एक माना जाता है।
- उन्हें व्यापक रूप से खेल का अब तक का सबसे बड़ा सेंटर-फॉरवर्ड माना जाता है।

94. C

Sol. • विश्व प्रकृति संरक्षण दिवस 28 जुलाई को मनाया जाता है।

- इसका उद्देश्य दुनिया को स्वस्थ रखने के लिए पर्यावरण और प्राकृतिक संसाधनों के संरक्षण की आवश्यकता के बारे में जागरूकता पैदा करना है।
- यह स्वीकार करता है कि एक स्वस्थ वातावरण एक स्थिर और स्वस्थ समाज की नींव है।
- अंतर्राष्ट्रीय यातायात प्रकाश दिवस 5 अगस्त को मनाया जाता है।
- विश्व मलाला दिवस 12 जुलाई को मनाया जाता है।
- 30 मई को राष्ट्रीय रचनात्मकता दिवस और राष्ट्रीय टकसाल जुलेप दिवस मनाया जाता है।

95. C

Sol. • श्रीलंका की खोज पुर्तगालियों ने 1505 में की थी।

- यह दक्षिण एशिया में एक द्वीप देश है और यह हिंद महासागर में स्थित है।
- यह एक बहुराष्ट्रीय राज्य है, जो विविध संस्कृतियों, भाषाओं और जातियों का घर है।
- यह मानव विकास सूचकांक में सर्वोच्च रैंक वाला दक्षिण एशियाई देश है।
- श्रीलंका में लगभग 1505 से 1658 तक पुर्तगाली प्रमुख राजनीतिक शक्ति थे।
- यह मन्नार की खाड़ी और पाक जलडमरुमध्य द्वारा भारतीय उपमहाद्वीप से अलग है।

96. C

Sol. • सुयश जाधव ने नेशनल स्पोर्ट्स अवार्ड्स, 2020 में पैरा-स्विमिंग के लिए अर्जुन पुरस्कार जीता।

- वह S7 श्रेणी में प्रतिस्पर्धा करने वाले एक भारतीय पैरा तैराक हैं।
- वह एकमात्र भारतीय पैरा तैराक हैं जिन्होंने रियो में 2016 पैरालिंपिक के लिए 'ए' क्वालीफाइंग मार्क हासिल किया है।

- अर्जुन पुरस्कार भारत का दूसरा सर्वोच्च खेल सम्मान है।
- इसे खेल और खेलों में उत्कृष्ट प्रदर्शन के लिए अर्जुन पुरस्कार के रूप में जाना जाता है।
- मरियप्पन टी 2004 के बाद भारत के पहले पैरालिंपियन स्वर्ण पदक विजेता हैं।

97. D

Sol. • 1971 के लोकसभा चुनाव में इंदिरा गांधी के नेतृत्व वाली कांग्रेस पार्टी ने 'गरीबी हटाओ' ('रिमूव पावर्टी') का नारा दिया था।

- गरीबी हटाओ देश बचाओ, इंदिरा गांधी के 1971 के चुनाव अभियान का विषय और नारा था।
- कांग्रेस पार्टी भारत में व्यापक जड़ों वाली एक राजनीतिक पार्टी है।
- यह पहला आधुनिक राष्ट्रवादी आंदोलन था जो ब्रिटिश साम्राज्य में एशिया और अफ्रीका में उभरा।
- 1971 में लोकसभा चुनाव 1947 में आजादी के बाद से पांचवें आम चुनाव थे।

98. D

Sol. • अवनी चतुर्वेदी उन पहली तीन भारतीय महिला फ्राइटर पायलटों में से एक हैं जिन्हें मार्च 2020 में 'नारी शक्ति पुरस्कार 2019' मिला था।

- वह मिग-21 में एकल उड़ान भरने वाली पहली भारतीय महिला पायलट बनी।
- नारी शक्ति पुरस्कार भारत सरकार के महिला एवं बाल विकास मंत्रालय द्वारा दिया जाने वाला एक वार्षिक पुरस्कार है।
- यह भारत में महिलाओं के लिए सर्वोच्च नागरिक सम्मान है और अंतर्राष्ट्रीय महिला दिवस पर भारत के राष्ट्रपति द्वारा प्रस्तुत किया जाता है।
- सीमा राव को भारतीय मीडिया में वंडर वुमन ऑफ इंडिया के नाम से जाना जाता है।

99. D

Sol. • म्यांमार का मुख्य धर्म बौद्ध धर्म है।

- यह दुनिया के सबसे बड़े धर्मों में से एक है और इसकी उत्पत्ति 2,500 साल पहले भारत में हुई थी।
- यह 520 मिलियन से अधिक अनुयायियों के साथ दुनिया का चौथा सबसे बड़ा धर्म है।
- ईसाई धर्म नासरत के यीशु के जीवन और शिक्षाओं पर आधारित एक अब्राहमिक एकेश्वरवादी धर्म है।
- यह दुनिया का सबसे बड़ा धर्म है, जिसके लगभग 2.5 बिलियन अनुयायी हैं।
- जैन धर्म आज तक प्रचलित दुनिया के सबसे पुराने धर्मों में से एक है।

- इस्लाम दुनिया का दूसरा सबसे बड़ा धर्म है जिसके दो बिलियन से अधिक अनुयायी हैं या दुनिया की आबादी का 24.9% है।

100. A

Sol. ● भारत में प्रथम महालेखाकार का पद 1858 में स्थापित किया गया था।

- सीएजी (CAG) भारत के संविधान के तहत एक स्वतंत्र प्राधिकरण है।
- वह भारतीय लेखा परीक्षा और लेखा विभाग के प्रमुख और सार्वजनिक धन के मुख्य संरक्षक हैं।
- एक बार सीएजी के रूप में सेवानिवृत्त/इस्तीफा देने के बाद, वह भारत सरकार या किसी भी राज्य के अधीन किसी भी पद को धारण करने के लिए अपात्र है।
- वह भारत की आकस्मिकता निधि और भारत के लोक लेखा से सभी व्ययों की लेखा परीक्षा करता है।