



**SSC MTS 2020 Tier I : 27**

**October S3**

**Mock Test Questions & Solutions**

## **Mock Test Solutions in English**

## Questions

- 1. Direction:** Select the most appropriate ANTONYM of the given word.

## ABSORB

- A. Eject
  - B. Oppose
  - C. Solve
  - D. Drink

2. **Direction:** Select the most appropriate ANTONYM of the given word.

APP

- A. Increase
  - B. Continue
  - C. Remove
  - D. Multiply

3. **Direction:** Select the most appropriate words to fill in the blank.

Mr. Patel is the manager, so you need to explain .



4. **Direction:** Select the most appropriate word to fill in the blank.

, not revenge, is the key to happiness and peace.



5. **Direction:** The given sentence contains a grammatical error. Identify the segment that contains the error.

My cousin is not like going for a walk very much.



- 6. Choose the correctly spelt word.**



7. **Direction:** The given sentence contains a grammatical error. Identify the segment that contains the error.

Last Saturday evening we go to a party.

- A. Last Saturday
- B. a party
- C. evening we
- D. go to

8. **Direction:** Select the most appropriate synonym of the given word.

ACTIVE

- A. Quiet
- B. Busy
- C. Lazy
- D. Similar

9. **Direction:** Select the most appropriate word to fill in the blank.

Two people were \_\_\_\_\_ to death when a bike hit a truck.

- A. crushed
- B. fell
- C. brushed
- D. rushed

10. **Direction:** Select the most appropriate word that means the same as the group of words given.

A change in the form or nature of something

- A. Metamorphosis
- B. Hibernation
- C. Camouflaging
- D. Refraction

11. **Direction:** Select the most appropriate option to substitute the underlined segment in the given sentence.

I cannot put with his rudeness any longer.

- A. put up with
- B. put up
- C. put away
- D. put up to

12. Choose the correctly spelt word.

- A. Fulcrum
- B. Falkrum
- C. Phelcram
- D. Phalkram

13. **Direction:** The given sentence contains a grammatical error. Identify the segment that contains the error.

They could be pass their exams if they studied harder.

- A. if they
- B. studied harder
- C. They could be
- D. pass their exams

14. **Direction:** Select the most appropriate option to substitute the underlined segment in the given sentence.

Juliet is telling to Ben to complete the work immediately.

- A. telling
- B. informing to
- C. saying
- D. asking to

15. **Direction:** Select the most appropriate meaning of the given idiom.

- Back up
- A. Stand up to fight
  - B. Think about the past
  - C. Defend or support
  - D. Withdraw

16. **Direction:** Select the most appropriate words to fill in the blank.

The job offer was too good for Ranjith to \_\_\_\_\_.

- A. turn from
- B. turn back
- C. turn off
- D. turn down

17. **Direction:** Select the most appropriate word that means the same as the group of words given.

Hard and difficult to bend

- A. Flexible
- B. Strong
- C. Pliable
- D. Rigid

18. **Direction:** 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'.

She came to work in spite of the heavy rain.

- A. while
- B. despite of
- C. although
- D. No substitution required

19. **Direction:** Select the most appropriate meaning of the given idiom.

- Work out
- A. Struggle very hard
  - B. Exercise or develop a plan
  - C. Do something successfully
  - D. Work very hard

20. **Direction:** Select the most appropriate synonym of the given word.

- BIND
- A. Bend
  - B. Spoil

C. Fasten

D. Tighten

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

Recently, there was a news report about a man who tried to catch a robber but suffered a hip (1) \_\_\_\_ in the process. The victim was a plumber, and he was (2) \_\_\_\_\_ in the hall outside the bedroom. He had left the bedroom door open for better ventilation. (3) \_\_\_\_\_ two hours after midnight, he heard some noise from the bedroom. When he went in to check, he found a man (4) \_\_\_\_\_ open the cupboard and taking away jewellery and cash. On seeing him, the robber tried to escape and jumped from the second floor. The plumber (5) \_\_\_\_\_ the robber and jumped after him. Unfortunately, he hit a concrete wall and broke his hip; he was rushed to a nearby hospital. The robber managed to escape.

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

- |              |            |
|--------------|------------|
| A. fracture  | B. disease |
| C. condition | D. problem |

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

- |                      |                  |
|----------------------|------------------|
| A. being sleeping    | B. been sleeping |
| C. had been sleeping | D. sleeping      |

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

- |        |          |
|--------|----------|
| A. For | B. About |
| C. By  | D. At    |

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

- |            |              |
|------------|--------------|
| A. opening | B. breaking  |
| C. closing | D. examining |

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

- |           |           |
|-----------|-----------|
| A. chased | B. ran    |
| C. darted | D. dashed |

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



- A.

B.

C.

D.

27. In a certain code language, ROMAN is written as ILNZM. How will FRANCE be written in the same code language?



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

$$45 \times 10 - 125 \div 25 + 5 = 30$$

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

29. In a certain code language, TRY is coded as 21 and SAGE is coded as 8 . How will COURAGE be coded in the same 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.

FOCUS : OQLWB :: MINOR : ?



31. Select the option that indicates the correct arrangement of the following words as they would

appear in the English dictionary.

1. Calibrate

2. California

3. Caliphate

4. Calicut

5. Caliber

6. Caliper

A. 4, 1, 5, 6, 3, 2

B. 5, 1, 4, 2, 6, 3

C. 1, 5, 4, 2, 6, 3

D. 5, 1, 2, 4, 3, 6

32. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

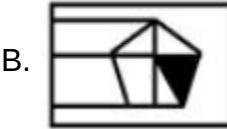
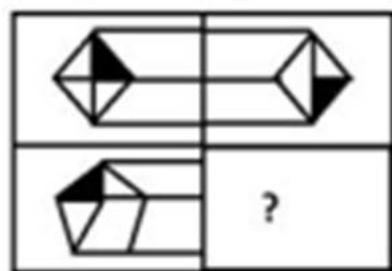
A. EFK

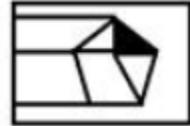
B. CDI

C. GHN

D. ABG

33. Given below is a pattern out of which a section has been cut. Select the option which, when placed correctly, will complete the pattern.



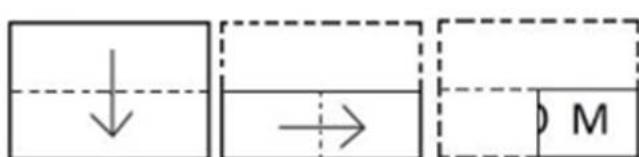


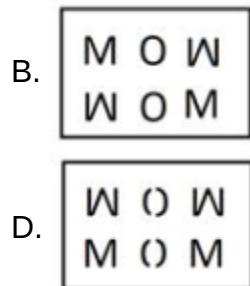
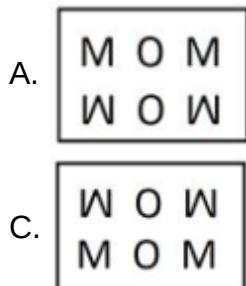
34. Two statements are given, followed by two conclusions numbered I and II. Assuming that the information given in the statements is true, even if it appears to be different than commonly known facts, decide which of the conclusions logically follow(s) from the statements.

## **Statements:**

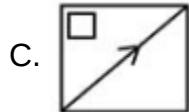
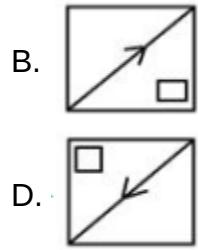
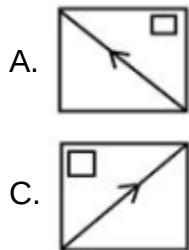
1. Some trees are branches.
  2. All woods are branches.

### **Conclusions:**





37. Select the figure that will come next in the following figure series.



38. In a certain code language, MOLE is written as ELOM. How will DRIVE be written in the same code language?

- A. ERIVD  
C. ERIDV

- B. EVIRD  
D. EVIDR

39. Four statements are given, followed by three conclusions numbered I, II and III, formation given in the statements is true, even if it appears to be different than commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**

1. All dusts are natures.
2. No natures are rivers.
3. All waters are rivers.

4. Some liquids are waters.

**Conclusions:**

I. Some natures are waters.

II. All natures are dusts.

III. All rivers are liquids.

A. Both conclusions I and II follow

C. None of the conclusions follow

B. All conclusions I, II and III follow

D. Only conclusion III follows

40. 'Chapter' is related to 'Book' in the same way as 'Compartment' is related to '\_\_\_\_\_':

A. Rail

B. Engine

C. Wheel

D. Train

41. Seven friends Aditya, Harsha, Sravya, Nidhi, Karun, Prem and Umesh, are sitting in a row facing north, but not necessarily in the same order, and watching a film in the theatre. Prem sits at the second position from either right or left. Two persons sit between Nidhi and Prem. Sravya sits fourth to the left of Karun. Umesh sits to the immediate left of Nidhi. Harsha sits third to the right of Sravya. Sravya is not sitting at an extreme end.

Who sits to the immediate right of Prem?

A. Aditya

B. Karun

C. Nidhi

D. Sravya

42. **Study the following pattern carefully and select the option that represents the value of X.**

1	3	5	7	11
2	11	28	X	126

A. 41

B. 35

C. 49

D. 53

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

$$13 : 182 :: 18 : ?$$



44. Select the number that can replace the question mark (?) in the following series.

?, 7, 14, 42, 168



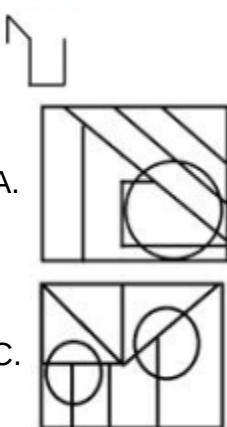
45. Seven employees of a company—Chandan, Ayyappan, Sukesh, Rekha, Ankit, Madhavi, Sadhvi—are seated around a circular conference table facing the centre.

- Chandan is between Ayyappan and Sukesh.
  - Rekha, who is second to right of Sukesh, is between Ankit and Madhavi.
  - Ankit is not the neighbour of Sadhvi.

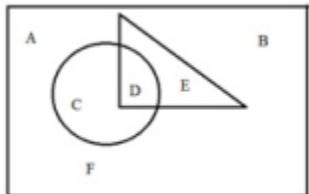
Which of the following statements is **WRONG**?

- A. Ankit is to the immediate left of Rekha.  
B. Madhavi is third to the right of Sukesh.  
C. Rekha is to the immediate right of Madhavi.  
D. Sadhvi is third to the right of Ankit.

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



47. In the given figure, the circle represents kids, the triangle represents girls and the rectangle represents human beings. Which portion represents human beings who are girls but NOT kids?





48. Select the correct sequence of mathematical signs to sequentially replace the \* signs and balance the given equation.

$$16 * 280 * 6 * 84 * 4 = 0$$

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

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

3	4	343
6	8	2744
9	?	1331



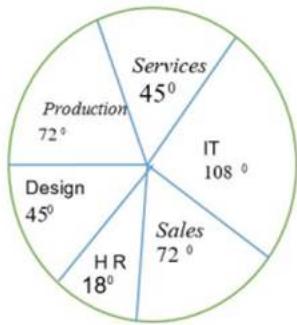
50. Select the option that is related to the third term in the same way as the second term is related to the first term.

Mirror : Reflection :: Prism : ?

- |               |               |
|---------------|---------------|
| A. Reflection | B. Scattering |
| C. Inversion  | D. Dispersion |

The number of people in a company working in various fields

Total number of people working = 2800



Percentage of females in the company working in various fields:

Field	Percentage
IT	45%
Sales	40%
HR	75%
Design	60%
Production	20%
Services	25%

The number of females working in HR is what percentage of the total number of people working in all the fields together?



A. 32.5

C. 33

B. 34

D. 31

68. The sum of the radius of the base and slant height of a right circular cone is 49 cm. If the total surface area is  $1848 \text{ cm}^2$ , then its height is:

(Take  $\pi = \frac{22}{7}$ )

A. 36 cm

C. 32 cm

B. 30 cm

D. 35 cm

69. Rs.86,581 is divided among A and B in the ratio of 9 : 2. The difference between 4 times the share of A and 10 times the share of B is:

A. Rs.1,25,936

B. Rs.1,35,936

C. Rs.1,36,952

D. Rs.1,25,963

70. A and B can do a work in 21 days and 14 days, respectively. They started the work by working together, but after 5 days, due to some reasons, B left the work and A completed the remaining work. The whole work was completed in:

A. 13 days

B.  $13\frac{1}{2}$  daysC.  $10\frac{1}{2}$  daysD.  $12\frac{1}{2}$  days

71. The present ages of a mother and her son are in the ratio of 6 : 1. When the son becomes as old as his mother now, then the ratio of his father's age to his mother's age is 13 : 11. When the son becomes as old as his father now, then the sum of the ages of the father and son will be 115 years. The present age of the father is:

A. 40 years

B. 45 years

C. 42 years

D. 44 years

72. The average age of two persons 5 years ago was 7.5 years. Find their average age after 5 years.

A. 18 years

B. 17.5 years

C. 18.5 years

D. 17 years

73. The selling price of 28 articles is the same as the cost price of 18 articles. Find the profit or loss percentage.

A. Profit  $35\frac{5}{7}\%$ B. Loss  $32\frac{5}{7}\%$

- C. Loss  $35\frac{5}{7}\%$  D. Profit  $32\frac{5}{7}\%$

74. Let x and y be two positive numbers such that  $x > y$ . The average of 50% of x and 30% of y is 34.5. If the difference between x and y is 10, then the average of x and y is:  
A. 85 B. 80  
C. 75 D. 64

75. The perimeter and area of a rectangular sheet are 94 m and  $420 \text{ m}^2$  respectively. The length of the diagonal will be:  
A. 32 m B. 36 m  
C. 35 m D. 37 m

76. Which one of the following is a ritual folk art traditional to the state of Kerala?  
A. Margomkali B. Manjari  
C. Phad D. Pithora

77. Energy and carbon requirements of the autotrophic organism are fulfilled by \_\_\_\_\_.  
A. lysis B. photosynthesis  
C. prognosis D. glycolysis

78. Which river creates the Jog Falls, also called Gersoppa Falls?  
A. Kabini river B. Kali river  
C. Shimsha river D. Sharavati river

79. In 1818, the Holkar Dynasty signed the Treaty of Mandsaur with the \_\_\_\_\_.  
A. Danish B. Dutch  
C. British D. French

80. Which layer of atmosphere can experience burning up of meteorites?  
A. Mesosphere B. Exosphere  
C. Thermosphere D. Stratosphere

81. Which Indian city has the Nilachal Hills?  
A. Bareilly B. Guwahati  
C. Indore D. Gangtok

82. Which Article of the Constitution of India defines the power of the President to grant pardons, etc, and to suspend, remit or commute sentences in certain cases?  
A. Article 72 B. Article 81

- C. Article 55 D. Article 63

83. With which of the following sports is Fouaad Mirza associated?  
A. Swimming B. Rugby  
C. Judo D. Equestrian

84. What is the amount of unit assistance provided under Pradhan Mantri Awas Yojana Gramin in hilly states?  
A. Rs.1.15 lakh B. Rs.1.50 lakh  
C. Rs.1.25 lakh D. Rs.1.30 lakh

85. What is the total number of female Members of Parliament in the 17th Lok Sabha?  
A. 56 B. 64  
C. 78 D. 81

86. Who among the following Indian shooter won a gold in the 10 m air rifle category in 2018 ISSF Junior World Cup?  
A. Aparajita Singh B. Elavenil Valarivan  
C. Rahi Sarnobat D. Anisa Sayyed

87. Complex food substances break down into simpler ones with the help of:  
A. hormones B. enzymes  
C. fungi D. bacteria

88. The \_\_\_\_\_ movement was led by Chaudhary Devi Lal in 1987.  
A. Sangharsh Yudh B. Insaaf Yudh  
C. Maha Yudh D. Nyaya Yudh

89. Bhavartha Dipika and Amritanubhava are the sacred books of the people of \_\_\_\_\_.  
A. Haryana B. Gujarat  
C. Maharashtra D. Rajasthan

90. What is the network of air tubes for gas exchange in insects?  
A. Gills B. Diaphragm  
C. Tracheae D. Spiracles

91. Which ministry among the following got the highest budgetary allocation in Indian Union Budget 2020?  
A. Ministry of Women and Child Development B. Defence  
C. Micro Small and Medium Enterprises D. Education

92. Who among the following founded the 'Servants of India Society'?  
A. Gopal Krishna Gokhale B. Sarojini Naidu

- |                                                                                                                                                                                                                             |                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| C. Gopinath Bordoloi                                                                                                                                                                                                        | D. Ramabai Ranade      |
| 93. Who is the author of the book 'Why I am an Atheist'?                                                                                                                                                                    |                        |
| A. Jyotiba Phule                                                                                                                                                                                                            | B. Raja Ram Mohan Roy  |
| C. Bhagat Singh                                                                                                                                                                                                             | D. BR Ambedkar         |
| 94. _____ contains an enzyme called lingual lipase, which breaks down fats.                                                                                                                                                 |                        |
| A. The small intestine                                                                                                                                                                                                      | B. The large intestine |
| C. Saliva                                                                                                                                                                                                                   | D. The stomach         |
| 95. Which among the following comes under the theme of 'Aspirational India' according to Budget 2020?                                                                                                                       |                        |
| A. Education and skills                                                                                                                                                                                                     | B. Culture and tourism |
| C. Infrastructure                                                                                                                                                                                                           | D. New economy         |
| 96. Which goats' underfur is woven into fine shawls called Pashmina shawls?                                                                                                                                                 |                        |
| A. Kashmiri goat                                                                                                                                                                                                            | B. Jamnapari goat      |
| C. Alpine goat                                                                                                                                                                                                              | D. Boer goat           |
| 97. 'Kamsale' is a dance form traditional to the state of _____.                                                                                                                                                            |                        |
| A. Karnataka                                                                                                                                                                                                                | B. Gujarat             |
| C. Goa                                                                                                                                                                                                                      | D. Assam               |
| 98. Chakradhar Samaroh is organised by the Ustad Allaudin Khan Sangeet Academy and the Chakradhar Lalit Kala Kendra to commemorate the glorious memory of Maharaja Chakradhar Singh who founded the _____ Gharana in music. |                        |
| A. Allahabad and the                                                                                                                                                                                                        | B. Lucknow             |
| C. Gwalior                                                                                                                                                                                                                  | D. Raigarh             |
| 99. 'Rikhampada' is a traditional dance of _____.                                                                                                                                                                           |                        |
| A. Arunachal Pradesh                                                                                                                                                                                                        | B. Uttar Pradesh       |
| C. Himachal Pradesh                                                                                                                                                                                                         | D. Madhya Pradesh      |
| 100. The Portuguese explorer Vasco da Gama landed in _____ in the year 1498.                                                                                                                                                |                        |
| A. Tuticorin                                                                                                                                                                                                                | B. Calicut             |
| C. Nagarcoil                                                                                                                                                                                                                | D. Calangute           |

### Solutions

1. A

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

Absorb = to take in liquid, gas or other substance from the surface or space around.

E.g.: Plants **absorb** carbon dioxide from the air.

Eject = to force someone to leave a place or position.

E.g.: He was forcibly **ejected** from the restaurant.

Oppose = to disagree strongly with someone's plan, policy etc., and try to change it or prevent it from succeeding.

Solve =to find a way of dealing with a problem or difficult situation.

Drink = to take liquid into your mouth and then down your throat into your stomach.

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

2. C

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

Add = to put something together with something else so as to increase the size, number, amount etc.

E.g.: The juice contains no **added** sugar.

Increase = to become greater in amount, number, value etc.

Continue = to keep existing or happening without stopping.

Remove = to take someone/something away from a place.

E.g.: Illegally parked vehicles were **removed** by the municipality.

Multiply = to add a number to itself a particular number of times.

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

3. A

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

- *To him* = “To” is used to show the “intended person”. “Him” is the objective case of pronoun for masculine gender.
- *To her* = “To” is used to show the “intended person”. “Her” is the objective case of pronoun for feminine gender.
- *From her* = “From” is used to show the “origin” of something. “Her” is the objective case of pronoun for feminine gender.
- *For him* = “For” is used to show the “purpose”. “Him” is the objective case of pronoun for masculine gender.

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

- “*To her*” has “To” as a preposition that is used to show the “intended person”. It also has “Her” that is the objective case of pronoun for feminine gender. But we need a pronoun of masculine gender. Thus, option B is incorrect.

- “*From her*” has “From” as a preposition that is used to show the “origin” of something. It also has “Her” that is the objective case of pronoun for feminine gender. But we need a pronoun of masculine gender. Thus, option C is incorrect.
- “*For him*” has “For” as a preposition that is used to show the “purpose”. But sentence does not demand the sense of “purpose”. Thus, option D is incorrect.
- “*To him*” has “to” as a preposition that is used to show the intended person that receives something.
- Here in the given sentence, it is used to mention the person (i.e. “him”) that will listen to the “explanation”.
- We use objective form of pronoun after preposition so that it acts like an object of preposition. Thus, objective form of masculine gender (since title “Mr.” is used) i.e. “Him” is used after the preposition “to”.

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

Thus, the correct sentence will be:

**Mr. Patel is the manager, so you need to explain to him.**

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

4. A

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

- *Forgiveness* = (noun) the act of forgiving someone i.e. to stop feeling angry with someone who has done something to harm, annoy or upset you.

- *Arrogance* = (noun) the behaviour of a person when they feel that they are more important than other people, so that they are rude to them or do not consider them.
- *Pride* = (noun) a feeling of being pleased or satisfied that you get when you or people who are connected with you have done something well or own something that other people admire.
- *Humility* = (noun) the quality of not thinking that you are better than other people.

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

- “*Arrogance*” as a noun refers to the behaviour of a person when they feel that they are more important than other people, so that they are rude to them or do not consider them. Thus, option B is incorrect.
- “*Pride*” as a noun means a feeling of being pleased or satisfied that you get when you or people who are connected with you have done something well or own something that other people admire. Thus, option C is incorrect.
- “*Humility*” as a noun means being humble i.e. not to think of yourself as better than other people. Thus, option D is incorrect.
- “*Forgiveness*” as a noun means an act of forgiving someone i.e. to stop feeling angry with someone who has done something to harm, annoy or upset you.
- Here in the given sentence, it is used to mention that in order to be happy and at peace, one needs to forgive i.e., stop getting angry at someone who has done something bad to you. An act of revenge won't bring any happiness and peace to you.

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

Thus, the correct sentence will be: **Forgiveness, not revenge, is the key to happiness and peace.**

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

5. B

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

- Structure of simple present tense for negative sentence is:

**Subject + do/does + not + base form of verb + Object**

**For example:**

The government **does not propose** to abandon the project altogether.

I **do not acknowledge** that he has done anything wrong.

- The given negative sentence is set in simple present tense as it mentions the likeness of “cousin”.
- But we have used helping verb “is” wrongly in the negative sentence of simple present tense (active voice).
- If ever helping verb “is” ever used in simple present tense, then it should take “third form of verb” after it i.e., in passive form. This is not the case in the given sentence.
- Thus, “does not like” should be used in place of “is not like” as per the structure of simple future tense for negative sentence.
- Hence, “**does not like**” is the correct substitution.

Thus, the correct sentence will be:

**My cousin does not like going for a walk very much.**

6. C

Sol. **Option C** has correctly spelt word. “**Grammar**” is the correct spelling. It means the rules in a language for changing the form of words and joining them into sentences.

7. D

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

- Simple present tense is used to show an action which happened in the past. It uses third form of verb. It is identified by time words like: “last week/day/month/year”, “yesterday”.

**For example:**

I **bought** some gloves **yesterday**.

The play opened **last week** to universal acclaim.

- The given sentence is set in simple past tense as it uses the time word “last Saturday” that shows the given action (i.e. “go”) happened in the past timeline.
- But we have erroneously used first form of verb “go” in the simple past tense.
- Thus, second form of verb “went” should be used in place of “go” as per the structure of simple past tense.
- Hence, “**went to**” is the correct substitution.

Thus, the correct sentence will be:

**Last Saturday evening we went to a party.**

8. B

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

Active = always busy in doing things.

E.g.: Although he is 80 years old, he is still very **active**.

Quiet = making very little noise.

Busy = having a lot to do; perhaps not free to do something else because you are working on something.

E.g.: I have got enough work to keep you **busy**.

Lazy = unwilling to work or be active.

Similar = like someone/something but not exactly the same.

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

9. A

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

- *Crushed* = (verb) to press someone so hard that he/she is injured or loses its shape.
- *Fell* = (verb) to drop down from a higher level to a lower level.
- *Brushed* = (verb) to clean or make something smooth with a brush.

- *Rushed* = (verb) to move or to do something with great speed, often too fast.

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

- “*Fell*” as a verb means to drop down from a higher level to a lower level. Thus, option B is incorrect.
- “*Brushed*” as a verb means to clean or make something smooth with a brush. Thus, option C is incorrect.
- “*Rushed*” as a verb means to move or to do something with great speed, often too fast. Thus, option D is incorrect.
- “*Crushed*” as a verb means to press someone so hard that he/she is injured or loses its shape.
- Here in the given sentence, it is used to mention that when bike hit a truck, 2 people were pressed so hard that eventually led to their death.

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

Thus, the correct sentence will be: **Two people were crushed to death when a bike hit a truck.**

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

10. A

Sol. Metamorphosis: a process in which someone/something changes completely into something different.

Antibiotic: something that can destroy or prevent the growth of bacteria and cure infections.

Hibernation: a state like deep sleep in which some animals spend the winter.

Camouflaging: to hide someone/something by making them/it/yourself look like the things around, or like something else.

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

11. A

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

- Underlined part needs correction in structure of phrasal verb.
- “Put up with someone/something” as a phrasal verb means to accept someone/something that is annoying, unpleasant, etc. without complaining.

**For example:**

I am not going to **put up with** their smoking any longer.

I don't know how he **puts up with** her.

- In the underlined part of the given sentence, we have missed preposition “with” in the structure of phrasal verb “Put up with”.
- Use of correct phrasal verb ensures the correct meaning i.e. “I” was no longer willing “to accept” his rudeness.
- Thus, “up” should be added after “put” to reflect this meaning in the sentence.
- Hence, “**put up with**” is the correct substitution.

Thus, the correct sentence will be: **I cannot put up with his rudeness any longer.**

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

12. A

Sol. **Option A** has correctly spelt word. “Fulcrum” is the correct spelling. It means the point on which a lever turns or is supported.

13. C

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

- Second Conditionals is used for imaginary situations. IF clause (condition) takes the past tense and mentions the imaginary situations. Main clause (result) takes “would + V1” and mention result of such imaginary situations.

**For example:**

If she **had** any money, he **would help** you.

- The given sentence is a conditional sentence as it uses conjunction “if” to show the condition. But we have erroneously used “be pass” after modal verb “could”.
- If ever “be” is to be used as part of main verb, then “third form of verb” should be used.
- But this is not the case in the given sentence. Also, modal verb takes the base form of verb after it. Thus, “be” should be used removed from “could be pass”.
- Hence, “**They could**” is the correct substitution.

Thus, the correct sentence will be: **They could pass their exams if they studied harder.**

14. A

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

- Underlined part needs correction in preposition used after verb.
- “Tell” as a verb takes an object immediately after it. It does not need a preposition “to” before an object. In contrast to this, verb “say” takes “preposition + object” i.e. “to + object”. Such a difference in use of preposition is quite visible in direct and indirect speech.

**For example:**

**Direct speech:**

The yoga instructor **said to us**, "Doing yoga daily will help you to develop a healthy mind and body."

**Indirect speech:**

The yoga instructor **told us** that doing yoga daily would help us to develop a healthy mind and body.

- In the underlined part of the given sentence, we have erroneously used preposition “to” after continuous form of verb “tell” i.e. “telling”. Thus, preposition “to” should be removed after “telling” so that “Ben” can become an object of verb.
- Hence, “**telling**” is the correct substitution.

Thus, the correct sentence will be: **Juliet is telling Ben to complete the work immediately.**

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

15. C

Sol. The idiom “**Back up**” means extra help or support that someone gets if necessary.

Example: We can use Ramesh as a **backup** if one of the other players drops out.

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

16. D

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

- *Turn from* = (phrasal verb) to become something
- *Turn back* = (phrasal verb) to return the way you have come; to make someone/something do this.
- *Turn off* = (phrasal verb) to stop listening to or thinking about something/someone.
- *Turn down* = (phrasal verb) to reject or refuse.

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

- “*Turn from something into something*” as a phrasal verb means to become something. Thus, option A is incorrect.
- “*Turn back*” as a phrasal verb means to return the way you have come. Thus, option B is incorrect.
- “*Turn off*” as a phrasal verb means to stop listening to or thinking about something/someone. Thus, option C is incorrect.
- “*Turn someone/something down*” as a phrasal verb means to reject or refuse to consider an offer, a proposal etc. or the person who makes it.
- Here in the given sentence, it is used to mention that job offered to Ranjith was so good that it can't be rejected or refused.

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

Thus, the correct sentence will be: **The job offer was too good for Ranjith to turn down.**

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

17. D

Sol. Flexible: able to change to suit new conditions.

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

Pliable: easy to bend without breaking.

Rigid: very strict and difficult to change.

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

18. D

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

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

19. B

Sol. The idiom “**Work out**” means to train the body by physical exercise OR to develop in a successful way.

Example:

I **work out** regularly to keep fit.

Things have **worked out** quite well for all us.

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

20. C

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

Bind = to tie someone/something with rope, string, etc., so that they/it cannot move or are held together.

E.g.: They **bound** his hands to a chair.

Bend = to lean, or make something lean, in a particular direction.

Spoil = to change something good into something bad, unpleasant etc.

Fasten = to attach or tie one thing to another thing.

E.g.: He **fastened** the papers together with a paper clip.

Tighten = to hold or fix something more securely in position.

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

21. A

Sol. The given passage is concerned with "**News report about a robbery**".

"Disease" as a noun means an illness affecting humans, animals or plants, often caused by infection. Thus, option B is wrong.

"Condition" as a noun means the state that something is in. Thus, option C is wrong.

"Problem" as a noun means a thing that is difficult to deal with or to understand. Thus, option D is wrong.

"Fracture" as a noun means a break in a bone or other hard material.

In the given sentence, it is used to mention that man suffered a break in his bone when he attempted to catch a robber.

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

22. D

Sol. The given passage is concerned with "**News report about a robbery**".

"Being sleeping" is an incorrect structure of continuous verb. Thus, option A is wrong.

"Been sleeping" is a part of verb structure that is used to show perfect continuous form. Thus, option B is wrong.

"Had been sleeping" is a verb structure that is used in past perfect continuous tense. Thus, option C is wrong.

"Sleeping" is a continuous form of verb.

In the given sentence, it is used after helping verb "was" to show the past continuous tense. It shows the sleeping state of "man" (i.e. "he").

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

23. B

Sol. The given passage is concerned with "**News report about a robbery**".

"For" as a preposition is used to show the reason or purpose. Thus, option A is wrong.

"By" as a preposition is used for showing how or in what way something is done. Thus, option C is wrong.

"At" as a preposition is used to show when something happens. Thus, option D is wrong.

"About" as an adverb means "a little more or less than" i.e. approximately.

In the given sentence, it is used to mention the "approximate" time of "two hours after midnight" when the man heard noise coming out from the bedroom.

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

24. B

Sol. The given passage is concerned with "**News report about a robbery**".

"Opening" as a noun means a space or a hole that someone/something can pass through. Thus, option A is wrong.

"Closing" as a noun means the act of shutting something such as factory, hospital, school etc. permanently. Thus, option C is wrong.

"Examining" is a continuous form of verb "examine". It means to consider or study an idea, a subject, etc. very carefully. Thus, option D is wrong.

"Breaking" means an entry into a building using force, usually to steal something.

In the given sentence, it is used to show that a man was trying to "break-in" to house. He was stealing jewellery and cash.

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

25. A

Sol. The given passage is concerned with "**News report about a robbery**".

"Ran" as a verb means to move using your legs, going after faster than when you walk. But it misses the essence of going after someone to catch him/her. Thus, option B is wrong.

"Darted" as a verb means to move suddenly and quickly in a particular direction. Thus, option C is wrong.

"Dashed" as a verb means to go somewhere very quickly. Thus, option D is wrong.

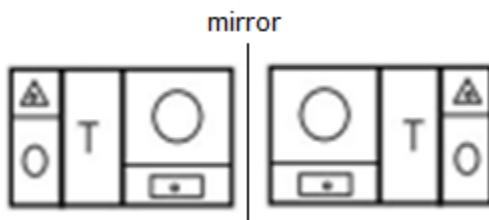
"Chased" as a verb means to run, drive etc. after someone/something in order to catch them or it.

In the given sentence, it is used to show that the man ran after the robber. When robber jumped from the second floor, man also did the same and eventually broke his hip.

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

26. C

Sol. The correct mirror image is as shown below:



Hence, option C is the correct answer.

27. C

Sol. Here the coded letters are the opposite letters of the given letters in the word as per the Alphabetical series.

As,

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

Thus, ROMAN -> ILNZM

Similarly,

FRANCE -> UIZMXV

Hence, option C is the correct answer.

28. B

Sol. By checking all the options we find that two signs given in option (B) will make the equation correct;

$$45 + 10 - 125 \div 25 \times 5 = 30$$

On solving L.H.S we get;

$$45 + 10 - 125 \div 25 \times 5$$

$$45 + 10 - 5 \times 5$$

$$45 + 10 - 25 = 30$$

So, L.H.S = R.H.S

Hence, option B is the correct answer.

29. B

Sol. Here the pattern is:

$$\text{TRY} \rightarrow 20+18+25 = 63, \text{ divided by the total number of letters within the word that is } 63 \div 3 = 21$$

Similarly,

$$\text{SAGE} \rightarrow 19+1+7+5 = 32;$$

$$32 \div 4 = 8$$

Therefore,

$$\text{COURAGE} \rightarrow 3+15+21+18+1+7+5 = 70;$$

$$70 \div 7 = 10$$

Hence, option B is the correct answer.

30. C

Sol. The pattern is as follows:

6	15	3	21	19
F	O	C	U	S
+9	+2	+9	+2	+9
O	Q	L	W	B

**15    17    12    23    28**

Similarly,

13	9	14	15	18
M	I	N	O	R
+9	+2	+9	+2	+9
V	K	W	Q	A

**21    11    23    17    1**

Hence, option C is the correct answer.

31. B

Sol. Here the first four letters are fixed and the further letters are arranged as per their position in Alphabetical order. Thus, the order of arrangement will be;

5. Caliber

1. Calibrate

4. Calicut

2. California

6. Caliper

3. Caliphate

Hence, option B is the correct answer.

32. C

Sol. The pattern is: the first two letters are immediate pairs while the third letter is obtained by adding (+5) to the second letter. Therefore,

$$E \ F(6) + \{5\} \rightarrow K(11)$$

$$C \ D(4) + \{5\} \rightarrow I(9)$$

$$A \ B(2) + \{5\} \rightarrow G(7)$$

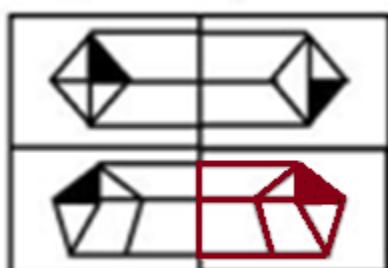
But,

$$\mathbf{G \ H(8) + \{6\} \rightarrow N(14)}$$

Hence, option C is the correct answer.

33. A

Sol. The option figure (A) will complete the pattern of the given figure;



Hence, option A is the correct answer.

34. D

Sol. The least possible Venn-diagram will be:



Conclusions:

I. All trees are woods – It is not a definite case, hence false.

II. All branches are woods – It is not a definite case, hence false.

Hence, option D is the correct answer.

35. B

Sol. The pattern is as follows: for consonants (+2) is added , for vowels it is coded as (AEIOU) -> (12345) respectively.

Z	E	A	L
+2			+2
B	2	1	N

Similarly,

P	L	A	C	E
+2	+2		+2	
R	N	1	E	2

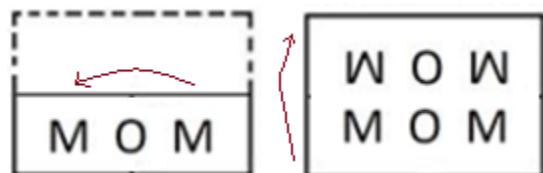
Therefore,

M	O	R	N	I	N	G
+2		+2	+2		+2	+2
O	4	T	P	3	P	I

Hence, option B is the correct answer.

36. C

Sol. When the given sheet of paper is unfolded it will appear as shown below:

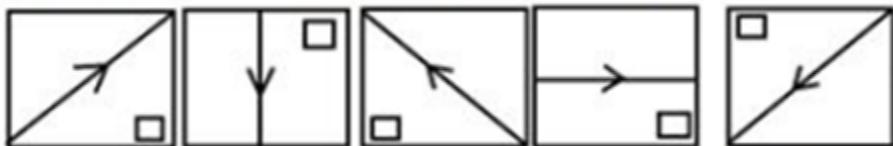


Hence, option C is the correct answer.

37. D

Sol. Logic: the arrow line is moving anticlockwise in 45 degree such that both the ends move also the arrow is moving upside down in each step. The box shaped element is moving one step then three steps in

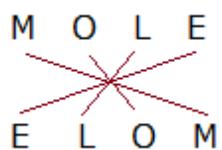
alternate figure. Thus figure in option (D) will complete the series.



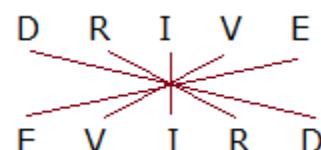
Hence, option D is the correct answer.

38. B

Sol. The pattern is as follows:



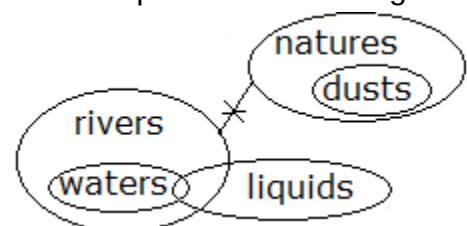
Similarly,



Hence, option B is the correct answer.

39. C

Sol. The least possible Venn-diagram will be:



Conclusions:

I. Some natures are waters – It is not a definite case, hence false.

II. All natures are dusts - It is not a definite case, hence false.

III. All rivers are liquids - It is not a definite case, hence false.

So, none of the conclusions follow.

Hence, option C is the correct answer.

40. D

Sol. Chapter is a part of book in similar way, compartment is a part of the train.

Hence, option D is the correct answer.

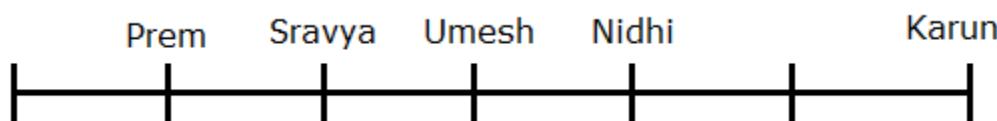
41. D

Sol. As per the given information: there will be two cases, but as per the condition "Sravya sits fourth to the left of Karun" and "Sravya is not sitting at an extreme end". Thus case 1 is eliminated and we proceed with case 2;

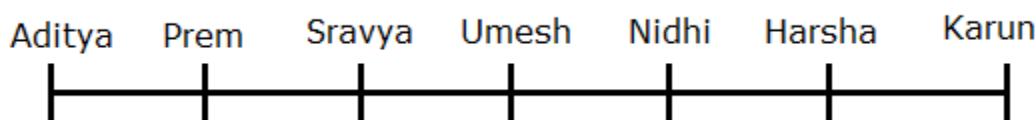
Case 1:



Case 2:



The final arrangement will be:



Clearly, Sravya sits to the immediate right of Prem

Hence, option D is the correct answer.

42. D

Sol. The pattern is as follows:

$$1 \times 1 = 1 + 1 = 2$$

$$3 \times 3 = 9 + 2 = 11$$

$$5 \times 5 = 25 + 3 = 28$$

$$7 \times 7 = 49 + 4 = 53$$

$$11 \times 11 = 121 + 5 = 126$$

Hence, option D is the correct answer.

43. D

Sol. The pattern is as follows:

$$13 \times 13 = 169; 169 + 13 = 182$$

Similarly,

$$18 \times 18 = 324; 324 + 18 = 342$$

Hence, option D is the correct answer.

44. D

Sol. The pattern is as follows:

$$7 \times 1 = 7$$

$$7 \times 2 = 14$$

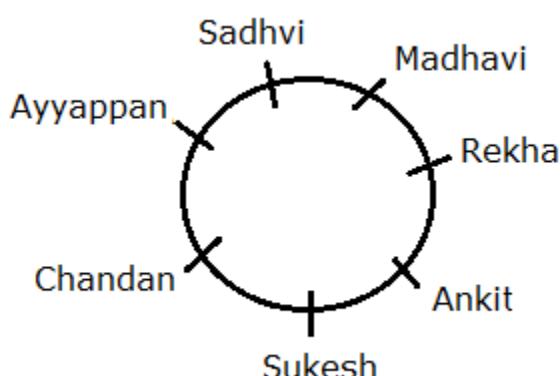
$$14 \times 3 = 42$$

$$42 \times 4 = 168$$

Hence, option D is the correct answer.

45. C

Sol. As per the given information: everybody is facing the centre.

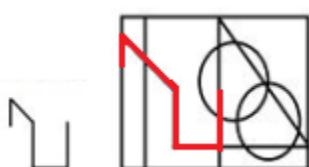


Clearly, Rekha is to the immediate right of Madhavi (incorrect) because Rekha is sitting to the immediate left of Madhavi.

Hence, option C is the correct answer.

46. B

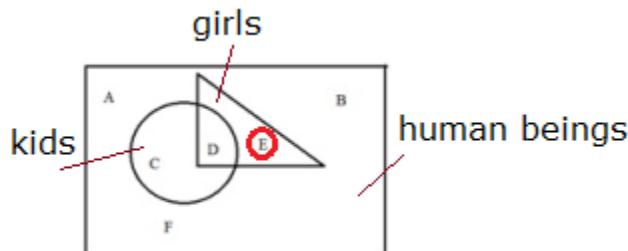
Sol. The given figure is perfectly embedded in the option figure (B) as shown below;



Hence, option B is the correct answer.

47. B

Sol. As per the given information it is clear that portion 'E' represents those human beings who are girls but NOT kids.



Hence, option B is the correct answer.

48. D

Sol. After checking all the options we find that signs given in option (D) when replaced by “\*\*” will balance the equation;

$$16 - 280 \times 6 \div 84 + 4 = 0$$

$$16 - 20 + 4$$

$$16 - 16 \Rightarrow 0$$

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

Hence, option D is the correct answer.

49. C

Sol. The pattern is as follows:

$$(3 + 4) = 7;$$

$$(7 \times 7 \times 7) = 343$$

Similarly,

$$(6 + 8) = 14;$$

$$(14 \times 14 \times 14) = 2744$$

Therefore;

$$(9 + 2) = 11;$$

$$(11 \times 11 \times 11) = 1331$$

Hence, option C is the correct answer.

50. D

Sol. When parallel rays of light strike the mirror, they are reflected. Likewise, the splitting of white light into its seven constituent colours when it passes through a glass prism is dispersion.

Hence, option D is the correct answer.

51. D

Sol. Co-prime number – those numbers that have only one common factor

Given,

Product of first two numbers are =  $88 = 11 \times 8$

Product of last two numbers are =  $165 = 11 \times 15$

Therefore, the sum of all three numbers =  $8 + 11 + 15 = 34$

Hence, option D is correct.

52. A

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

Area of the rectangle = length  $\times$  breadth = lb

$$\text{New length of the rectangle} = l \times \frac{(100+25)}{100} = l \times \frac{125}{100} = \frac{5l}{4}$$

$$\text{New breadth of the rectangle} = b \times \frac{(100+32)}{100} = b \times \frac{132}{100} = \frac{33b}{25}$$

$$\text{New area of the rectangle} = \frac{5l}{4} \times \frac{33b}{25} = \frac{33lb}{20}$$

$$\left( \left( \frac{33lb}{20} - lb \right) \div lb \right) \times 100$$

Therefore, percentage increase in the area of the resulting rectangle =

$$= \frac{13lb}{20lb} \times 100$$

$$= 65\%$$

Hence, option A is correct.

53. A

Sol. Let the number of boys and girls be  $5x$  and  $7x$

Sum of the students in the school =  $5x + 7x = 12x$

The number of students will be in multiple of 12

Therefore, the total number of students could be 1440 in the school

Hence, option A is correct.

54. A

Sol. Let the cost price of the item be  $x$  Rs.

$$\text{Marked price of the item} = (x) \times \frac{(100 + 50)}{100} = \frac{150x}{100} = \frac{3x}{2}$$

Selling price of the item after allowing two successive discounts of 30% and 25% =

$$\left(\frac{3x}{2}\right) \times \frac{(100 - 30)}{100} \times \frac{(100 - 25)}{100} = \left(\frac{3x}{2}\right) \times \frac{70}{100} \times \frac{75}{100} = \frac{63x}{80}$$

Given,

Loss = cost price – selling price

$$\Rightarrow 850 = (x) - \frac{63x}{80}$$

$$\Rightarrow 850 = \frac{80x - 63x}{80}$$

$$\Rightarrow 850 = \frac{17x}{80}$$

$$\Rightarrow x = \frac{850 \times 80}{17}$$

$$\Rightarrow x = 4000 \text{ Rs.}$$

$$\frac{63x}{80} = \frac{63 \times 4000}{80}$$

Therefore, the selling price of the item =  $\frac{63 \times 4000}{80} = 3150$  Rs.

Hence, option A is correct.

55. D

Sol. Total number of people working in all the fields together = 2800

$$\text{The number of females working in HR} = \frac{2800}{360} \times \frac{18}{100} \times \frac{75}{100} = 105$$

$$\text{Therefore, required percentage} = \frac{105}{2800} \times 100 = 3.75\%$$

Hence, option D is correct.

56. B

Sol.

$$\text{The number of females working in the field of Design} = 2800 \times \frac{45}{360} \times \frac{60}{100} = 210$$

Hence, option B is correct.

57. B

Sol.

$$\text{The number of males working in the field of Sales} = 2800 \times \frac{72}{360} \times \frac{(100 - 40)}{100} = 2800 \times \frac{72}{360} \times \frac{60}{100} = 336$$

$$\text{The number of males working in the field of IT} = 2800 \times \frac{108}{360} \times \frac{(100 - 45)}{100} = 2800 \times \frac{108}{360} \times \frac{55}{100} = 462$$

Therefore, the total number of males working in the fields of Sales and IT = 336 + 462 = 798

Hence, option B is correct.

58. C

Sol. We know that:

$$\text{Speed} \propto \frac{1}{\text{time}}$$

Ratio of Speed = 6 : 10 = 3 : 5

Ratio of time = 5 : 3

Therefore, the ratio of the time taken by the man in walking from A to B to that from B to A = 5 : 3

Hence, option C is correct.

59. B

Sol. We know that:

$$\text{Amount} = P \left(1 + \frac{r}{100}\right)^t$$
$$\Rightarrow 11094 = 9600 \left(1 + \frac{\left(\frac{15}{2}\right)}{100}\right)^t$$

$$\Rightarrow \frac{11094}{9600} = \left(1 + \frac{15}{200}\right)^t$$

$$\Rightarrow \frac{1849}{1600} = \left(\frac{215}{200}\right)^t$$

$$\Rightarrow \left(\frac{43}{40}\right)^2 = \left(\frac{43}{40}\right)^t$$

$$\Rightarrow t = 2 \text{ years}$$

Hence, option B is correct.

60. B

Sol. Given:

Speed of the train = 90 km/h

$$\text{Time} = 1 \text{ hour } 12 \text{ min} = 1 + \frac{12}{60} \text{ hour} = 1\frac{1}{5} \text{ hour}$$

We know that:

$$\text{Distance} = \text{speed} \times \text{time}$$

$$\begin{aligned} &= 90 \times \frac{6}{5} \\ &= 108 \text{ km} \end{aligned}$$

$$\text{New speed of the train} = 90 \times \frac{(100+40)}{100} = 90 \times \frac{140}{100} = 126 \text{ km/h}$$

$$\text{Therefore, required time to cover } \frac{7}{3} \text{ of the distance} = \frac{\frac{7}{3} \times 108}{126} = \frac{7 \times 108}{3 \times 126} = 2 \text{ hours}$$

Hence, option B is correct.

61. A

Sol. Given:

$$\text{Simple interest} = 16250 - 12500 = 3750 \text{ Rs.}$$

$$\text{Time} = 4 \text{ years}$$

We know that:

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

$$\Rightarrow 3750 = \frac{12500 \times R \times 4}{100}$$

$$\Rightarrow R = \frac{3750 \times 100}{12500 \times 4}$$

$$\Rightarrow R = 7.5\%$$

$$\text{New rate of interest} = 7.5 + 2.5 = 10\%$$

Therefore, increased amount for the same period =  $12500 + \frac{12500 \times 10 \times 4}{100} = 12500 + 5000 = 17500$  Rs.

Hence, option A is correct.

62. C

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

$$\text{Selling price} = \text{cost price} \times \frac{(100 + \text{profit}\%)}{100}$$
$$= (x) \times \frac{\left(100 + \frac{53}{4}\right)}{100}$$
$$= \frac{453x}{400}$$

According to the question,

$$\Rightarrow \frac{453x}{400} + 76.70 = (x) \times \frac{\left(100 + \frac{81}{5}\right)}{100}$$
$$\Rightarrow \frac{581x}{500} - \frac{453x}{400} = 76.70$$
$$\Rightarrow \frac{(2324x - 2265x)}{100 \times 20} = 76.70$$
$$\Rightarrow \frac{59x}{2000} = 76.70$$
$$\Rightarrow x = \frac{76.70 \times 2000}{59}$$
$$\Rightarrow x = 2600 \text{ Rs.}$$

Hence, option C is correct.

63. B

Sol. Let the radius of a cylinder be  $x$  and height of the cylinder be  $y$

$$\text{Volume of the cylinder} = \pi r^2 h = \pi x^2 y$$

$$\text{New radius of the cylinder} = (x) \times \frac{(100 + 20)}{100} = 1.2x$$

$$\text{New height of the cylinder} = (y) \times \frac{(100 - 45)}{100} = 0.55y$$

$$\text{New volume of the cylinder} = \pi(1.2x)^2(0.55y) = 0.792\pi x^2 y$$

Therefore, required percentage decrease in the volume of the cylinder =

$$\frac{(\pi x^2 y - 0.792\pi x^2 y)}{\pi x^2 y} \times 100 = \frac{0.208\pi x^2 y}{\pi x^2 y} \times 100 = 20.8\% \text{ decrease}$$

Hence, option B is correct.

64. B

Sol. The value of  $5 \times 8 - 6 + [(27 - 3) \div 6 - 4]$

By using BODMAS rules –

$$= 5 \times 8 - 6 + \left[ \left( \frac{24}{6} \right) - 4 \right]$$

$$= 40 - 6 + [4 - 4]$$

$$= 34$$

Hence, option B is correct.

65. B

Sol. Let a man can earn  $x$  Rs. in one day and a woman can earn  $y$  Rs. in one day

$$5 \text{ men and } 6 \text{ women can earn in one day} = \frac{10500}{6} = 1750 \text{ Rs.}$$

$$5x + 6y = 1750 \dots\text{eq1`}$$

$$\text{8 men and 12 women can earn in one day} = \frac{24800}{8} = 3100 \text{ Rs.}$$

$$8x + 12y = 3100 \dots\text{eq2}$$

By multiplying eq1 to 2 and subtracting eq2 in eq1

$$\Rightarrow 10x + 12y - 8x - 12y = 3500 - 3100$$

$$\Rightarrow 2x = 400$$

$$\Rightarrow x = 200$$

By putting value of x in eq1

$$\Rightarrow 5 \times 200 + 6y = 1750$$

$$\Rightarrow 6y = 1750 - 1000$$

$$\Rightarrow y = \frac{750}{6}$$

$$\Rightarrow y = 125 \text{ Rs.}$$

Now,

$$7 \text{ men and 10 women can earn in one day} = 7 \times 200 + 10 \times 125 = 1400 + 1250 = 2650 \text{ Rs.}$$

$$\text{Therefore, required days to earn Rs. } 26500 \text{ by 7 men and 10 women} = \frac{26500}{2650} = 10 \text{ days}$$

Hence, option B is correct.

66. A

Sol.

Let the fraction be  $\frac{x}{y}$

According to the question,

$$\frac{(x) \times \frac{(100 + 25)}{100}}{y \times \frac{\left(100 + \frac{125}{4}\right)}{100}} = \frac{5}{14}$$

$$\Rightarrow \frac{(x) \times \frac{125}{100}}{y \times \frac{525}{400}} = \frac{5}{14}$$

$$\Rightarrow \frac{(x) \times \frac{5}{4}}{y \times \frac{21}{16}} = \frac{5}{14}$$

$$\Rightarrow \frac{x}{y} = \frac{5 \times 4 \times 21}{14 \times 5 \times 16}$$

$$\Rightarrow \frac{x}{y} = \frac{3}{8}$$

Hence, option A is correct.

67. A

Sol. We know that:

$$\text{Mean} = \frac{\text{sum of all the observations}}{\text{number of all the observations}}$$

$$\Rightarrow 32 = \frac{\text{sum of all the observations}}{70}$$

$$\Rightarrow \text{Sum of all the observations} = 2240$$

Two item were misread as 64 and 28 instead of 46 and 81, correct sum of all the observations  
 $= 2240 - 64 - 28 + 46 + 81 = 2275$

$$\text{Therefore, the correct mean} = \frac{2275}{70} = 32.5$$

Hence, option A is correct.

68. D

Sol. Given:

Total surface area of the cone =  $1848 \text{ cm}^2$

Sum of radius of the base and slant height = 49

We know that:

$$\text{Total surface area of the cone} = \pi r(l + r)$$

$$\Rightarrow 1848 = \frac{22}{7} \times r \times 49$$

$$\Rightarrow r = \frac{1848 \times 7}{22 \times 49}$$

$$\Rightarrow r = 12 \text{ cm}$$

Slant height of the cone =  $49 - 12 = 37 \text{ cm}$

We know that:

$$\text{Height of the cone} = \sqrt{(\text{Slant height})^2 - (\text{radius})^2}$$

$$= \sqrt{(37)^2 - (12)^2}$$

$$= \sqrt{1369 - 144}$$

$$= \sqrt{1225}$$

$$= 35 \text{ cm}$$

Therefore, the height of the cone = 35 cm

Hence, option D is correct.

69. A

Sol.

$$\text{Share of A} = \frac{\frac{86581}{(9+2)} \times 9}{\frac{86581}{11} \times 9} = \frac{86581}{11} \times 9 = 70839 \text{ Rs.}$$

$$\text{Share of B} = \frac{\frac{86581}{11} \times 2}{\frac{86581}{11} \times 9} = \frac{86581}{11} \times 2 = 15742 \text{ Rs.}$$

$$\text{Therefore, required difference} = 4 \times 70839 - 10 \times 15742$$

$$= 283356 - 157420$$

$$= 125936 \text{ Rs.}$$

Hence, option A is correct.

70. B

Sol. Let the total work = LCM of (21, 14) = 42 units

$$\text{Work done by A in one day} = \frac{42}{21} = 2 \text{ units}$$

$$\text{Work done by B in one day} = \frac{42}{14} = 3 \text{ units}$$

$$\text{Work done by A and B in 5 days} = 5(2 + 3) = 5 \times 5 = 25 \text{ units}$$

$$\text{Remaining work} = 42 - 25 = 17 \text{ units}$$

$$\text{Time taken by A to complete the remaining work} = \frac{17}{2} = 8\frac{1}{2} \text{ days}$$

$$\text{Therefore, required total time to complete the work} = 5 + 8\frac{1}{2} = 13\frac{1}{2} \text{ days}$$

Hence, option B is correct.

71. A

Sol. Let present age of mother and her son be  $6x$  and  $x$

$$\text{When the son become as old as his mother now, then age of son} = x + 5x = 6x$$

$$\text{Age of his mother after } 5x \text{ years} = 6x + 5x = 11x$$

$$\text{Age of his father after } 5x \text{ years} = \frac{11x}{11} \times 13 = 13x$$

$$\text{Present age of his father} = 13x - 5x = 8x$$

$$\text{When the son become as old as his father now, then age of son} = 6x + 2x = 8x$$

$$\text{Age of his father} = 13x + 2x = 15x$$

Given,

Sum of the ages of the father and son = 115

$$\Rightarrow 15x + 8x = 115$$

$$\Rightarrow 23x = 115$$

$$\Rightarrow x = \frac{115}{23}$$

$$\Rightarrow x = 5$$

Therefore, the present age of the father =  $8x = 8 \times 5 = 40$  years

Hence, option A is correct.

72. B

Sol. Given,

The average age of two persons 5 years ago = 7.5

Sum of age of two persons 5 years ago =  $7.5 \times 2 = 15$

Sum of age of two persons at present =  $15 + 2 \times 5 = 15 + 10 = 25$

Sum of age of two persons after 5 years =  $25 + 2 \times 5 = 25 + 10 = 35$  years

$$\frac{35}{2}$$

Therefore, the average age after 5 years =  $\frac{35}{2} = 17.5$  years

Hence, option B is correct.

73. C

Sol. Selling price  $\times 28$  = cost price  $\times 18$

Cost price: selling price = 14 : 9

$$\frac{(14 - 9)}{14} \times 100 = \frac{5}{14} \times 100 = 35\frac{5}{7}\%$$

Therefore, required loss percentage =  $\frac{(14 - 9)}{14} \times 100 = \frac{5}{14} \times 100 = 35\frac{5}{7}\%$  loss

Hence, option C is correct.

74. A

Sol. Given,

$$x - y = 10$$

$$\Rightarrow x = y + 10 \dots\text{eq1}$$

And,

$$\frac{(x) \times \frac{50}{100} + (y) \times \frac{30}{100}}{2} = 34.5$$

$$\Rightarrow \frac{x}{2} + \frac{3y}{10} = 69$$

By putting value of from eq1

$$\Rightarrow \frac{y + 10}{2} + \frac{3y}{10} = 69$$

$$\Rightarrow \frac{5y + 50 + 3y}{10} = 69$$

$$\Rightarrow 8y + 50 = 690$$

$$\Rightarrow 8y = 690 - 50$$

$$\Rightarrow y = \frac{640}{8}$$

$$\Rightarrow y = 80$$

By putting value of y in eq1

$$\Rightarrow x = 80 + 10$$

$$\Rightarrow x = 90$$

$$\frac{90 + 80}{2} = \frac{170}{2}$$

Therefore, the average of x and y =  $\frac{90 + 80}{2} = \frac{170}{2} = 85$

Hence, option A is correct.

75. D

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

Given,

Perimeter of the rectangular sheet = 94

$$\Rightarrow 2(l + b) = 94$$

$$\Rightarrow l + b = 47 \dots\text{eq1}$$

Area of the rectangular sheet = 420

$$\Rightarrow lb = 420 \dots\text{eq2}$$

We know that:

$$A^2 + B^2 = (A + B)^2 - 2AB$$

The length of the diagonal =  $\sqrt{l^2 + b^2}$

$$= \sqrt{(l + b)^2 - 2lb}$$

$$= \sqrt{(47)^2 - 2 \times 420}$$

$$= \sqrt{2209 - 840}$$

$$= \sqrt{1369}$$

$$= 37\text{m}$$

Therefore, the length of the diagonal will be 37m

Hence, option D is correct.

76. A

Sol. \* **Margomkali** is a ritual folk art of the Syrian Christians of Kottayam and Thrissur districts (Kerala).

\* It is an ancient Indian round dance of the St. Thomas Christians community.

\* Pinarayi Vijayan is the current chief minister of Kerala.

\* Arif Mohammad Khan is the current governor of Kerala.

77. B

Sol. \* Energy and carbon requirements of the autotrophic organism are fulfilled by **photosynthesis**.

- \* Photosynthesis is the process by which plants use sunlight, water, and carbon dioxide to create oxygen and energy.
- \* During photosynthesis, plants take in carbon dioxide (CO<sub>2</sub>) and water (H<sub>2</sub>O) from the air and soil.

78. D

Sol. \* **Jog Falls is a waterfall on the Sharavati river.**

- \* It is located in the Western Ghats near Sagar Taluk of Shivamogga District, Karnataka.
- \* It is the second highest plunge waterfall in India.
- \* Sharavati river originates at a place called Ambutheertha in the Thirthahalli taluk, Karnataka.
- \* It flows entirely within the state of Karnataka.
- \* It is one of the few westward flowing rivers of India.

79. C

Sol. \* **The Treaty of Mandsaur** was signed between **Holkar Dynasty and British on 6 January 1818.**

- \* The Battle of Mahidpur was fought during the Third Anglo-Maratha War between the Holkar dynasty and the British East India Company at Mahidpur on 21 December 1817.
- \* The Holkar dynasty was a Maratha clan of Dhangar origin in India.
- \* The Holkars were generals under Peshwa Baji Rao I.
- \* The dynasty was founded with Malhar Rao.

80. A

Sol. \* Most meteors burn up in the **Mesosphere** layer of the atmosphere.

- \* The mesosphere is the third and coldest layer of Earth's atmosphere.
- \* It extends above the stratopause up to a height of about 80 km.

81. B

Sol. \* The Nilachal Hill or Kamagiri hill is situated in the **western part of Guwahati, Assam**.

- \* The famous Kamakhya Temple is situated at Nilachal hills.
- \* Himanta Biswa Sarma is the current chief minister of Assam.
- \* Jagdish Mukhi is the current governor of Assam.

82. A

Sol. \* **Article 72 of the Indian Constitution** defines the power of the President to grant pardons, etc, and to suspend, remit or commute sentences in certain cases.

\* Article 81 of the Constitution defines the composition of the House of the People or Lok Sabha.

\* Article 55 of the Constitution deals with the Manner of election of President.

\* Article 63 of the Constitution provides the office of Vice-president.

83. D

Sol. \* **Fouaad Mirza** is an Indian equestrian.

\* He won two silver medals at the Equestrian Jumping Final at the Asian Games 2018 in Jakarta, Indonesia.

\* He is the first Indian since 1982 to win a medal at an individual equestrian event at the Asian Games.

84. D

Sol. \* Pradhan Mantri Awas Yojana (PMAY) was launched on June 25, 2015.

\* It has two components: Pradhan Mantri Awas Yojana (Urban) for the urban poor and Pradhan Mantri Awaas Yojana (Gramin) for the rural poor.

\* Under the PMGAY scheme, financial assistance worth ₹120,000 in plain areas and ₹130,000 in difficult areas (high land area) is provided for construction of houses.

85. C

Sol. \* The 17th Lok Sabha has the highest ever number of women politicians with a total of **78 which is nearly 14%**.

\* The earlier Lok Sabha had 62 women MPs.

\* Odisha has the maximum percentage of female MPs.

\* There are no female MPs from Jammu and Kashmir and Himachal Pradesh.

86. B

Sol. \* **Indian shooter Elavenil Valarivan** won a gold in the 10 m air rifle category in 2018 ISSF Junior World Cup.

\* She won a gold medal and a silver medal in world university Games in 2019.

\* She also won a gold medal at World Junior World Cup Suhl 2019.

\* She hails from Cuddalore, Tamil Nadu.

87. B

Sol. Option B is the correct answer.

\* **Enzymes** help in the breakdown of complex molecules like carbohydrates, protein, fats, etc. into simple molecules.

\* Enzymes are biological catalysts.

88. D

Sol. \* **The Nyaya Yudh movement** was led by Chaudhary Devi Lal in 1987 in Haryana.

\* This was struggle for justice.

\* Chaudhary Devi Lal served as 6th Deputy Prime Minister of India from 1989 to 1991.

\* He served as the Chief Minister of Haryana first in 1977-79 and then in 1987-89.

89. C

Sol. \* **Bhavartha Dipika and Amritanubhava are the sacred books of the people of Maharashtra.**

\* Both sacred books are written by Marathi saint and poet Sant Dnyaneshwar.

\* Bhavartha Deepika (Jnaneshwari) is a commentary on the Bhagavad Gita.

90. C

Sol. Option C is the correct answer.

\* The network of air tubes in insects for gas exchange is called **tracheal**.

\* The trachea is also known as the **windpipe**.

91. B

Sol. \* In 2020-21, the **Ministry of Defence** was allocated **Rs 4,71,378 crore**.

\* The allocation to the Ministry of Defence is the highest allocation among all ministries of the central government.

\* For the Financial Year 2022-23, the Finance Minister has allocated Rs. 525,166.15 crore to the Ministry of Defence.

\* Rajnath Singh is the current Defense Minister of India.

92. A

Sol. \* **The Servants of India Society was formed by Gopal Krishna Gokhale.**

- \* It was formed in Pune, Maharashtra, on June 12, 1905.
- \* In 1905, Gopal Krishna Gokhale was elected as the president of the Indian National Congress.
- \* In 1899, he was elected to the Bombay Legislative Council.
- \* He is considered as the political guru of Mahatma Gandhi.

93. C

- Sol. \* Why I Am an Atheist is an essay written by **Bhagat Singh in 1930 in Lahore Central Jail**.
- \* The essay was published on 27 September 1931 in Lala Lajpat Rai's English weekly "The People".
  - \* He was a member of Hindustan Socialist Republican Association.
  - \* Bhagat Singh was executed on 23 March 1931 in Lahore Conspiracy in Lahore Central Jail.

94. C

- Sol. \* **Saliva** contains an enzyme called lingual lipase, which breaks down fats.
- \* Lingual lipase breaks down triglycerides into glycerides and fatty acid components.
  - \* Lipase is produced by the cells in the tongue.
  - \* Saliva contains **99% water**.
  - \* The remaining 1% of saliva contains digestive enzymes, uric acid, electrolytes, mucus-forming proteins, and cholesterol.

95. A

- Sol. \* The Union Budget 2020 was enlisted in three themes.
- \* The three themes of the Union Budget 2020 are "**Aspirational India, Economic development, A Caring Society**".
  - \* Under the first theme of Aspirational India, the Union Budget focused on skills, education and agriculture.

96. A

- Sol. Option A is the correct answer.
- \* Pashmina shawls are woven from the wool obtained from the underfur of **Kashmiri goats**.
  - \* The under fur of Kashmiri goat is soft.
  - \* Wool is obtained from sheep, goat, yak and some other animals.

97. A

- Sol. \* Kamsale Dance is a popular folk-dance form in **Mysuru Karnataka region**.  
\* It performed by the devotees of God Mahadeshwara.  
\* Kamsale is a brass made musical instrument.  
\* Its origin is traced to the Mythological period.

98. D

- Sol. \* Chakradhar Samaroh is organised by the Ustad Allaudin Khan Sangeet Academy and the Chakradhar Lalit Kala Kendra.  
\* This event was first organized in the year **1985**.  
\* The event is organized annually in the memory of the memory of Great King and Musician Maharaja Chakradhar Singh.  
\* He founded the **Raigarh Gharana** in music.

99. A

- Sol. \* '**Rikhangpada**' is a traditional dance of **Arunachal Pradesh**.  
\* It is a dance of Nishi tribe of lower Subansiri District of Arunachal Pradesh.  
\* Pema Khandu is the current chief minister of Arunachal Pradesh.  
\* B. D. Mishra is the current governor of Arunachal Pradesh.

100. B

- Sol. \* The Cape Route from Europe to India was discovered by **Vasco da Gama**.  
\* He reached Port of Calicut via Cape of Good Hope (Africa) on **May 17th, 1498** and was received by the **Hindu ruler of Calicut, Zamorin**.  
\* **Cochin** was the initial capital of the Portuguese in India.

## **Mock Test Solutions in Hindi**

## Questions

- 1. Direction:** Select the most appropriate ANTONYM of the given word.

## ABSORB

- A. Eject
  - B. Oppose
  - C. Solve
  - D. Drink

- 2. Direction:** Select the most appropriate ANTONYM of the given word.

**ADD**

- A. Increase
  - B. Continue
  - C. Remove
  - D. Multiply

3. **Direction:** Select the most appropriate words to fill in the blank.

Mr. Patel is the manager, so you need to explain \_\_\_\_\_.



4. **Direction:** Select the most appropriate word to fill in the blank.

\_\_\_\_\_, not revenge, is the key to happiness and peace.

- A. Forgiveness
  - B. Arrogance
  - C. Pride
  - D. Humility

5. **Direction:** The given sentence contains a grammatical error. Identify the segment that contains the error.

My cousin is not like going for a walk very much.



6. Choose the correctly spelt word.

- |            |             |
|------------|-------------|
| A. Gramar  | B. Gramer   |
| C. Grammar | D. Grrammer |

7. **Direction:** The given sentence contains a grammatical error. Identify the segment that contains the error.

Last Saturday evening we go to a party.

- A. Last Saturday
- B. a party
- C. evening we
- D. go to

8. **Direction:** Select the most appropriate synonym of the given word.

ACTIVE

- A. Quiet
- B. Busy
- C. Lazy
- D. Similar

9. **Direction:** Select the most appropriate word to fill in the blank.

Two people were \_\_\_\_\_ to death when a bike hit a truck.

- A. crushed
- B. fell
- C. brushed
- D. rushed

10. **Direction:** Select the most appropriate word that means the same as the group of words given.

A change in the form or nature of something

- A. Metamorphosis
- B. Hibernation
- C. Camouflaging
- D. Refraction

11. **Direction:** Select the most appropriate option to substitute the underlined segment in the given sentence.

I cannot put with his rudeness any longer.

- A. put up with
- B. put up
- C. put away
- D. put up to

12. Choose the correctly spelt word.

- A. Fulcrum
- B. Falkrum
- C. Phelcram
- D. Phalkram

13. **Direction:** The given sentence contains a grammatical error. Identify the segment that contains the error.

They could be pass their exams if they studied harder.

- A. if they
- B. studied harder
- C. They could be
- D. pass their exams

14. **Direction:** Select the most appropriate option to substitute the underlined segment in the given sentence.

Juliet is telling to Ben to complete the work immediately.

- A. telling
- B. informing to
- C. saying
- D. asking to

15. **Direction:** Select the most appropriate meaning of the given idiom.

- Back up
- A. Stand up to fight
  - B. Think about the past
  - C. Defend or support
  - D. Withdraw

16. **Direction:** Select the most appropriate words to fill in the blank.

The job offer was too good for Ranjith to \_\_\_\_\_.

- A. turn from
- B. turn back
- C. turn off
- D. turn down

17. **Direction:** Select the most appropriate word that means the same as the group of words given.

Hard and difficult to bend

- A. Flexible
- B. Strong
- C. Pliable
- D. Rigid

18. **Direction:** 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'.

She came to work in spite of the heavy rain.

- A. while
- B. despite of
- C. although
- D. No substitution required

19. **Direction:** Select the most appropriate meaning of the given idiom.

- Work out
- A. Struggle very hard
  - B. Exercise or develop a plan
  - C. Do something successfully
  - D. Work very hard

20. **Direction:** Select the most appropriate synonym of the given word.

- BIND
- A. Bend
  - B. Spoil

C. Fasten

D. Tighten

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

Recently, there was a news report about a man who tried to catch a robber but suffered a hip (1) \_\_\_\_ in the process. The victim was a plumber, and he was (2) \_\_\_\_\_ in the hall outside the bedroom. He had left the bedroom door open for better ventilation. (3) \_\_\_\_\_ two hours after midnight, he heard some noise from the bedroom. When he went in to check, he found a man (4) \_\_\_\_\_ open the cupboard and taking away jewellery and cash. On seeing him, the robber tried to escape and jumped from the second floor. The plumber (5) \_\_\_\_\_ the robber and jumped after him. Unfortunately, he hit a concrete wall and broke his hip; he was rushed to a nearby hospital. The robber managed to escape.

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

- |              |            |
|--------------|------------|
| A. fracture  | B. disease |
| C. condition | D. problem |

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

- |                      |                  |
|----------------------|------------------|
| A. being sleeping    | B. been sleeping |
| C. had been sleeping | D. sleeping      |

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

- |        |          |
|--------|----------|
| A. For | B. About |
| C. By  | D. At    |

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

- |            |              |
|------------|--------------|
| A. opening | B. breaking  |
| C. closing | D. examining |

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

- |           |           |
|-----------|-----------|
| A. chased | B. ran    |
| C. darted | D. dashed |

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



- 

- 



$$45 \times 10 - 125 \div 25 + 5 = 30$$



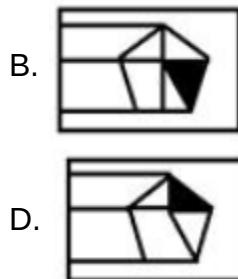
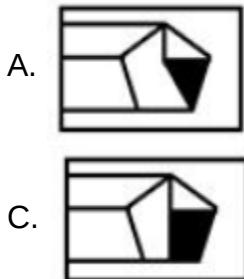
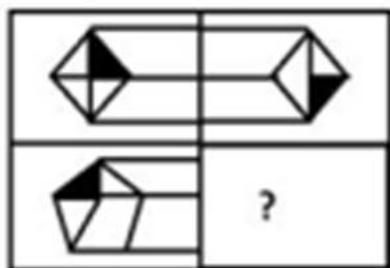



FOCUS : OQLWB :: MINOR : ?



31. उस विकल्प का चयन करें जो निम्नलिखित शब्दों की सही व्यवस्था को झंगित करता है जैसा कि वे अंग्रेजी शब्दकोश में दिखाई देंगे।

1. Calibrate
  2. California
  3. Caliphate
  4. Calicut
  5. Caliber
  6. Caliper
- A. 4, 1, 5, 6, 3, 2      B. 5, 1, 4, 2, 6, 3  
C. 1, 5, 4, 2, 6, 3      D. 5, 1, 2, 4, 3, 6
32. चार अक्षर-समूह दिए गए हैं, जिनमें से तीन किसी न किसी रूप में एक समान हैं और एक भिन्न है। विषम अक्षर-समूह का चयन करें।
- A. EFK      B. CDI  
C. GHN      D. ABG
33. नीचे एक पैटर्न दिया गया है जिसमें से एक सेक्शन को काट दिया गया है। उस विकल्प का चयन करें, जिसे सही ढंग से रखे जाने पर पैटर्न पूरा हो जाएगा।



34. दो कथन दिए गए हैं, जिसके बाद दो निष्कर्ष संख्या I और II दिए गए हैं। यह मानते हुए कि कथनों में दी गई जानकारी सत्य है, भले ही वह

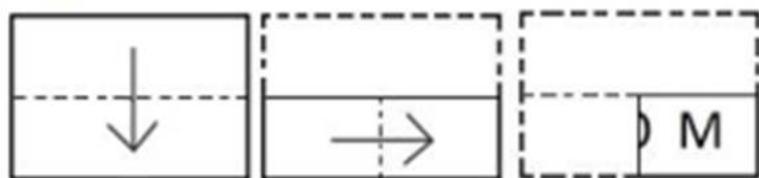
**सामान्यतः:** ज्ञात तथ्यों से भिन्न प्रतीत होती हो, निर्णय करें कि कौन सा/से निष्कर्ष दिए गए कथनों का तार्किक रूप से अनुसरण करता है।

**कथन:**

1. कुछ ट्री, ब्रांच हैं।
2. सभी वुड ब्रांच हैं।

**निष्कर्ष:**

- I. सभी ट्री, वुड हैं।
  - II. सभी ब्रांच, वुड हैं।
- A. दोनों निष्कर्ष | और || अनुसरण करते हैं
- B. केवल निष्कर्ष | अनुसरण करता है
- C. केवल निष्कर्ष || अनुसरण करता है
- D. न तो निष्कर्ष | न ही || अनुसरण करता है
35. एक निश्चित कूट भाषा में ZEAL को B21N के रूप में तथा PLACE को RN1E2 के रूप में कूटबद्ध किया जाता है। तो उसी कूट भाषा में MORNING को किस प्रकार कूटबद्ध किया जाएगा?
- A. O4TQ3QI
- B. O4TP3PI
- C. P5UQ9QJ
- D. 44TP3P3
36. एक कागज को मोड़ा और काटा जाता है जैसा कि नीचे दिखाया गया है। कागज को खोले जाने पर यह कैसा दिखाई देगा?



- A. 

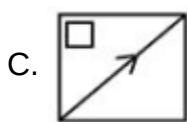
M	O	M
M	O	M
- B. 

M	O	W
M	O	M
- C. 

M	O	M
M	O	M
- D. 

M	O	M
M	O	M

37. उस आकृति का चयन करें जो निम्नलिखित आकृति शरूंखला में आगे आएगी।



38. एक निश्चित कूट भाषा में MOLE को ELOM के रूप में लिखा जाता है। उसी कूट भाषा में DRIVE को किस प्रकार लिखा जाएगा?

A. ERIVD

B. EVIRD

C. ERIDV

D. EVIDR

39. चार कथन दिए गए हैं, जिसके बाद तीन निष्कर्ष संख्या I, II और III दिए गए हैं, कथनों में दिया गया गठन सत्य है, भले ही यह सामान्यतः ज्ञात तथ्यों से भिन्न प्रतीत होता हो, निर्णय करें कि कौन सा/से निष्कर्ष दिए गए कथनों का तार्किक रूप से अनुसरण करता है/हैं।

#### कथन:

1. सभी डस्ट, नेचर हैं।
2. कोई नेचर, रिवर नहीं है।
3. सभी वाटर, रिवर हैं।
4. कुछ लिकिंड, वाटर हैं।

#### निष्कर्ष:

- I. कुछ नेचर, वाटर हैं।
- II. सभी नेचर, डस्ट हैं।

III. सभी रिवर, लिकिंड हैं।

A. दोनों निष्कर्ष I और II अनुसरण करता है

C. कोई निष्कर्ष अनुसरण नहीं करता है।

B. सभी निष्कर्ष I, II और III अनुसरण करते हैं

D. केवल निष्कर्ष III अनुसरण करता है

40. जिस प्रकार 'अध्याय' का संबंध 'पुस्तक' से है, उसी प्रकार 'कम्पार्टमेंट' का संबंध '\_\_\_\_\_ ' से है।

A. रेल

B. इंजन

C. पहिया

D. ट्रेन

41. सात मित्र अर्थात् आदित्य, हर्ष, श्रव्य, निधि, करुण, प्रेम और उमेश उत्तर की ओर मुख करके एक पंक्ति में बैठे हैं, लेकिन आवश्यक नहीं है कि इसी क्रम में हो, तथा थिएटर में एक फिल्म देख रहे हैं। प्रेम या तो दाईं ओर या बाईं ओर से दूसरे स्थान पर बैठता है। निधि और प्रेम के मध्य दो व्यक्ति बैठे हैं। श्रव्य, करुण की बाईं ओर से चौथे स्थान पर बैठता है। उमेश, निधि की ठीक बाईं ओर बैठता है। हर्ष, श्रव्य की दाईं ओर से तीसरे स्थान पर बैठता है। श्रव्य एक अंतिम छोर पर नहीं बैठा है।

कौन प्रेम की ठीक दाईं ओर बैठता है?

A. आदित्य

B. करुण

C. निधि

D. श्रव्य

42. निम्नलिखित पैटर्न का ध्यानपूर्वक अध्ययन करें और उस विकल्प का चयन करें जो X के मान को दर्शाता है।

1	3	5	7	11
2	11	28	X	126

A. 41

B. 35

C. 49

D. 53

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

13 : 182 :: 18 : ?

A. 338

B. 306

C. 324

D. 342

44. उस संख्या का चयन करें जो निम्नलिखित शरूँखला में प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित कर सकती है।

? , 7, 14, 42, 168

A. 4

B. 3

C. 1

D. 7

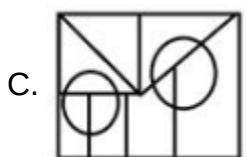
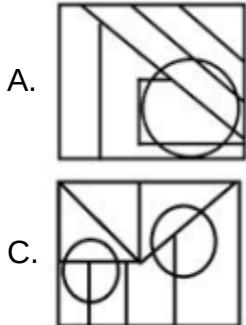
45. एक कंपनी के सात कर्मचारी अर्थात् चंदन, अय्यप्पन, सुकेश, रेखा, अंकित, माधवी, साधवी केंद्र की ओर मुख करके एक गोलाकार कॉन्फरेंस मेज के चारों ओर बैठे हैं।

1. चंदन, अय्यप्पन और सुकेश के मध्य में है।
2. रेखा, जो सुकेश की दाईं ओर से दूसरे स्थान पर है, अंकित और माधवी के मध्य में है।
3. अंकित, साधवी का पड़ोसी नहीं है।

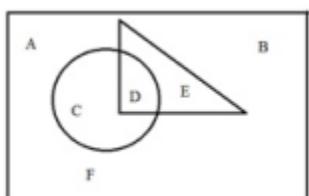
निम्न में से कौन सा कथन गलत है?

- |                                   |                                                  |
|-----------------------------------|--------------------------------------------------|
| A. अंकित, रेखा की ठीक बाईं ओर है। | B. माधवी, सुकेश की दाईं ओर से तीसरे स्थान पर है। |
| C. रेखा, माधवी की ठीक दाईं ओर है। | D. साधवी, अंकित की दाईं ओर से तीसरे स्थान पर है। |

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



47. दी गई आकृति में, वृत्त बच्चों का प्रतिनिधित्व करता है, तिरभुज लड़कियों का प्रतिनिधित्व करता है और आयत मनुष्यों का प्रतिनिधित्व करता है। कौन सा भाग उन मनुष्यों का प्रतिनिधित्व करता है जो लड़कियाँ हैं लेकिन बच्चे नहीं हैं?



- |      |      |
|------|------|
| A. B | B. E |
| C. C | D. D |

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

$$16 * 280 * 6 * 84 * 4 = 0$$

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

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

3	4	343
6	8	2744
9	?	1331



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

दर्पण : प्रतिबिम्ब :: सम पार्श्व (पिरज्म) : ?

- A. प्रतिबिम्ब B. प्रकीर्णन  
C. व्यत्करण D. विक्षेपण

51. तीन संख्याएं एक-दूसरे की सह-भाज्य हैं जैसे कि पहली दो संख्याओं का गुणनफल 88 है और अंतिम दो संख्याओं का गुणनफल 165 है। तीनों संख्याओं का योग ज्ञात करें:



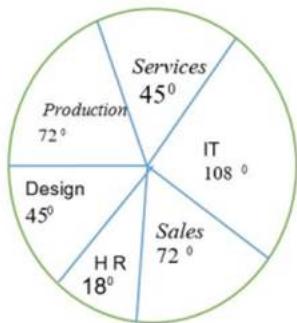
52. एक आयत की लंबाई और चौड़ाई में क्रमशः 25% और 32% की वृद्धि की जाती है। परिणामी आयत के क्षेत्रफल में कितने प्रतिशत वृद्धि होगी?



53. एक स्कूल में लड़कों और लड़कियों की संख्या का अनुपात 5:7 है। निम्नलिखित में से स्कूल में छातरों की कल संख्या क्या हो सकती है?

विभिन्न क्षेत्रों में काम करने वाली कंपनी में लोगों की संख्या

काम करने वाले लोगों की कुल संख्या = 2800



विभिन्न क्षेत्रों में काम करने वाली कंपनी में महिलाओं का प्रतिशत:

क्षेत्र	प्रतिशत
आईटी	45%
सेल्स	40%
एचआर	75%
डिजाइन	60%
प्रोडक्शन	20%
सर्विसेस	25%

एचआर में काम करने वाली महिलाओं की संख्या सभी क्षेत्रों में एक साथ काम करने वाले लोगों की कुल संख्या की कितनी प्रतिशत है?



56. डिजाइन के क्षेत्र में कार्यरत महिलाओं की संख्या है:

A. 220

B. 210

C. 240

D. 200

57. सेल्स और आईटी के क्षेत्र में काम करने वाले पुरुषों की कुल संख्या है:

A. 698

B. 798

C. 788

D. 789

58. एक व्यक्ति बिंदु A से B तक 6 किमी/घंटा की गति से जाता है और बिंदु B से A तक 10 किमी/घंटा की गति से वापस आता है। व्यक्ति द्वारा A से B तक जाने में और B से A तक वापस आने में लिए गए समय का अनुपात ज्ञात कीजिए।

A. 4 : 3

B. 5 : 4

C. 5 : 3

D. 5 : 2

59. कितने समय में  $7\frac{1}{2}\%$  प्रति वर्ष की दर से 9,600 रुपये की राशि 11,094 रुपये हो जाएगी?

A. 3 वर्ष

B. 2 वर्ष

C.  $2\frac{1}{2}$  वर्षD.  $1\frac{1}{2}$  वर्ष60. एक ट्रेन 90 किमी/घंटा की गति से एक निश्चित दूरी को तय करने में 1 घंटा 12 मिनट का समय लेती है। यदि गति में 40% की वृद्धि की जाती है, तो वह दूरी का  $\frac{7}{3}$  भाग तय करने में कितना समय लेगी?

A. 4 घंटे

B. 2 घंटे

C. 3 घंटे

D. 5 घंटे

61. 12,500 रुपये की राशि प्रति वर्ष साधारण ब्याज पर 4 वर्षों में 16,250 रुपये हो जाती है। यदि ब्याज दर में प्रतिवर्ष 2.5% की वृद्धि की जाती है, तो समान अवधि के लिए बढ़ी हुई राशि है:

A. 17,500 रुपये

B. 17,000 रुपये

C. 18,000 रुपये

D. 18,250 रुपये

62. एक वस्तु को  $13\frac{1}{4}\%$  के लाभ पर बेचा जाता है। अगर इसे 7670 रुपये अधिक में बेचा जाता, तो लाभ  $16\frac{1}{5}\%$  होता। वस्तु का लागत मूल्य ज्ञात करें:

A. 3,400 रुपये

B. 3,600 रुपये

C. 2,600 रुपये

D. 2,500 रुपये

63. एक बेलन की त्रिज्या में 20% की वृद्धि होती है और इसकी ऊंचाई में 45% की कमी होती है। सिलेंडर के आयतन में कितने प्रतिशत की वृद्धि/कमी होती है?

A. वृद्धि, 25%

B. कमी, 20.8%

C. कमी, 25%

D. वृद्धि, 20.8%

64.  $8 - 6 + [(27 - 3) \div 6 - 4]$  के 5 का मान ज्ञात कीजिए?

A. 19

B. 34

C. 54

D. 26

65. 5 पुरुष और 6 महिलाएं 6 दिनों में 10,500 रुपये कमा सकते हैं। 8 पुरुष और 12 महिलाएं 8 दिनों में 24,800 रुपये कमा सकते हैं। कितने दिनों में 7 पुरुष और 10 महिलाएं 26,500 रुपये कमा सकते हैं?

A. 15

B. 10

C. 12

D. 14

66. जब किसी भिन्न के अंश में 25% की वृद्धि होती है और हर में  $31\frac{1}{4}\%$  की वृद्धि होती है, तो यह  $\frac{5}{14}$  हो जाता है। भिन्न ज्ञात कीजिए।

A.  $\frac{3}{8}$   
B.  $\frac{7}{8}$   
C.  $\frac{3}{11}$   
D.  $\frac{5}{8}$ 

67. 70 वस्तुओं का माध्य 32 था। बाद में, यह पता चला कि दो वस्तुओं को 46 और 81 के बजाय 64 और 28 के रूप में गलत तरीके से पढ़ा गया था। सही माध्य है:

A. 32.5

B. 34

C. 33

D. 31

68. एक लम्ब वृत्तीय शंकु के आधार की त्रिज्या और तिर्यक ऊँचाई का योग 49 सेमी है। यदि कुल पृष्ठीय क्षेत्रफल 1848 सेमी<sup>2</sup> है तो इसकी ऊँचाई है:

 $(\pi = \frac{22}{7} \text{ लेने पर})$ 

A. 36 सेमी

B. 30 सेमी

C. 32 सेमी

D. 35 सेमी

69. 86,581 रुपये को A और B के बीच 9:2 के अनुपात में बांटा गया है। A के हिस्से के 4 गुना और B के हिस्से के 10 गुना के बीच का अंतर है:

A. 1,25,936 रुपये

B. 1,35,936 रुपये

C. 1,36,952 रुपये

D. 1,25,963 रुपये

70. A और B एक कार्य को क्रमशः 21 दिन और 14 दिन में पूरा कर सकते हैं। उन्होंने एक साथ काम करना शुरू किया, लेकिन 5 दिनों के बाद, कुछ कारणों से, B ने काम करना बंद कर दिया और A ने शेष कार्य पूरा किया। कार्य पूरा होने में लगा समय ज्ञात करें।

A. 13 दिन

B.  $13\frac{1}{2}$  दिनC.  $10\frac{1}{2}$  दिनD.  $12\frac{1}{2}$  दिन

71. एक मां और उसके पुत्र की वर्तमान आयु 6:1 के अनुपात में है। जब बेटा अपनी मां के जितना बड़ा हो जाता है तो उसके पिता की आयु का उसकी मां की आयु से अनुपात 13:11 हो जाता है। जब पुत्र अपने पिता के जितना बड़ा हो जाएगा, तब पिता और पुत्र की आयु का योग 115 वर्ष होगा। पिता की वर्तमान आयु है:



81. भारत के किस शहर में नीलाचल की पहाड़ियाँ स्थित हैं?  
A. बरेली B. गुवाहाटी  
C. इंदौर D. गंगटोक

82. भारत के संविधान का कौन सा अनुच्छेद राष्ट्रपति की क्षमा, आदि देने और कुछ मामलों में सजा को निलंबित करने, हटाने या कम करने की शक्ति को परिभाषित करता है?  
A. अनुच्छेद 72 B. अनुच्छेद 81  
C. अनुच्छेद 55 D. अनुच्छेद 63

83. फवाद मिर्जा का संबंध निम्नलिखित में से किस खेल से है?  
A. स्विमिंग B. रण्बी  
C. जूडो D. घुड़सवारी

84. पहाड़ी राज्यों में प्रधानमंत्री आवास योजना ग्रामीण के तहत प्रदान की जाने वाली इकाई सहायता की राशि कितनी है?  
A. 1.15 लाख रुपये B. 1.50 लाख रुपये  
C. 1.25 लाख रुपये D. 1.30 लाख रुपये

85. 17वीं लोकसभा में संसद की महिला सदस्यों की कुल संख्या कितनी है?  
A. 56 B. 64  
C. 78 D. 81

86. निम्नलिखित में से किस भारतीय निशानेबाज ने 2018 आईएसएसएफ (ISSF) जूनियर विश्व कप में 10 मीटर एयर राइफल वर्ग में स्वर्ण पदक जीता?  
A. अपराजिता सिंह B. एलावेनिल वालारिवान  
C. राही सरनोबत D. अनीसा सैयद

87. जटिल खाद्य पदार्थ किसकी सहायता से सरल पदार्थों में टूट जाते हैं:  
A. हार्मोन B. एंजाइम  
C. कवक D. बैक्टीरिया

88. 1987 में चौधरी देवी लाल ने \_\_\_\_\_ आंदोलन का नेतृत्व किया था।  
A. संघर्ष युद्ध B. इंसाफ युद्ध  
C. महा युद्ध D. न्याय युद्ध

89. भावार्थ दीपिका और अमृतानुभव \_\_\_\_\_ के लोगों की पवित्र पुस्तकें हैं।  
A. हरियाणा B. गुजरात  
C. महाराष्ट्र D. राजस्थान

90. कीड़ों में गैस विनिमय के लिए वायु नलिकाओं का जाल है?  
A. गिल्स B. डायाफराम

C. ट्रेकिआ

D. स्पाइराकलस

91. निम्नलिखित में से किस मंत्रालय को भारतीय केंद्रीय बजट 2020 में सबसे अधिक बजटीय आवंटन मिला?

- A. महिला एवं बाल विकास मंत्रालय  
C. सूक्ष्म, लघु और मध्यम उद्यम

- B. रक्षा  
D. शिक्षा

92. निम्नलिखित में से किसने 'सर्वेंट्स ऑफ इंडिया सोसाइटी' की स्थापना की?

- A. गोपाल कृष्ण गोखले  
C. गोपीनाथ बोरदोलोई

- B. सरोजिनी नायडू  
D. रमाबाई रानाडे

93. 'हाय आय एम एन अथिस्ट' पुस्तक के लेखक कौन हैं?

- A. ज्योतिबा फुले  
C. भगत सिंह

- B. राजा राम मोहन राय  
D. बी. आर. अम्बेडकर

94. \_\_\_\_\_ में लिंगुअल लाइपेज नामक एंजाइम होता है, जो वसा को तोड़ता है।

- A. छोटी आंत  
C. लार

- B. बड़ी आंत  
D. पेट

95. बजट 2020 के अनुसार निम्नलिखित में से कौन 'एस्प्रेशनल इंडिया' विषय के अंतर्गत शामिल है?

- A. शिक्षा और कौशल  
C. इंफ्रास्ट्रक्चर

- B. संस्कृति और पर्यटन  
D. नई अर्थव्यवस्था

96. किस बकरी के आंतरिक रोएं (underfur) से पश्मीना शॉल नामक महीन शॉल को बुना जाता है?

- A. कश्मीरी बकरी  
C. अल्पाइन बकरी

- B. जमनापरी बकरी  
D. बोअर बकरी

97. 'कमसले' \_\_\_\_\_ राज्य का पारंपरिक नृत्य है।

- A. कर्नाटक  
C. गोवा

- B. गुजरात  
D. असम

98. चक्रधर समारोह का आयोजन उस्ताद अलाउद्दीन खान संगीत अकादमी और चक्रधर ललित कला केंद्र द्वारा महाराजा चक्रधर सिंह की गौरवशाली स्मृति को मनाने के लिए किया जाता है, जिन्होंने संगीत में \_\_\_\_\_ घराने की स्थापना की थी।

- A. इलाहाबाद  
C. ग्वालियर

- B. लखनऊ  
D. रायगढ़

99. 'रिखम्पदा' \_\_\_\_\_ का पारंपरिक नृत्य है।

- A. अरुणाचल प्रदेश  
C. हिमाचल प्रदेश

- B. उत्तर प्रदेश  
D. मध्य प्रदेश

100. पुर्तगाली खोजकर्ता वास्को डी गामा वर्ष 1498 में \_\_\_\_\_ में उत्तरा।

- A. तूतीकोरिन

- B. कालीकट

C. नागरकोइल

D. कलंगुट

### Solutions

1. A

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

Absorb = to take in liquid, gas or other substance from the surface or space around.

E.g.: Plants **absorb** carbon dioxide from the air.

Eject = to force someone to leave a place or position.

E.g.: He was forcibly **ejected** from the restaurant.

Oppose = to disagree strongly with someone's plan, policy etc., and try to change it or prevent it from succeeding.

Solve =to find a way of dealing with a problem or difficult situation.

Drink = to take liquid into your mouth and then down your throat into your stomach.

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

2. C

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

Add = to put something together with something else so as to increase the size, number, amount etc.

E.g.: The juice contains no **added** sugar.

Increase = to become greater in amount, number, value etc.

Continue = to keep existing or happening without stopping.

Remove = to take someone/something away from a place.

E.g.: Illegally parked vehicles were **removed** by the municipality.

Multiply = to add a number to itself a particular number of times.

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

3. A

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

- *To him* = “To” is used to show the “intended person”. “Him” is the objective case of pronoun for masculine gender.
- *To her* = “To” is used to show the “intended person”. “Her” is the objective case of pronoun for feminine gender.
- *From her* = “From” is used to show the “origin” of something. “Her” is the objective case of pronoun for feminine gender.
- *For him* = “For” is used to show the “purpose”. “Him” is the objective case of pronoun for masculine gender.

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

- “*To her*” has “To” as a preposition that is used to show the “intended person”. It also has “Her” that is the objective case of pronoun for feminine gender. But we need a pronoun of masculine gender. Thus, option B is incorrect.

- “*From her*” has “From” as a preposition that is used to show the “origin” of something. It also has “Her” that is the objective case of pronoun for feminine gender. But we need a pronoun of masculine gender. Thus, option C is incorrect.
- “*For him*” has “For” as a preposition that is used to show the “purpose”. But sentence does not demand the sense of “purpose”. Thus, option D is incorrect.
- “*To him*” has “to” as a preposition that is used to show the intended person that receives something.
- Here in the given sentence, it is used to mention the person (i.e. “him”) that will listen to the “explanation”.
- We use objective form of pronoun after preposition so that it acts like an object of preposition. Thus, objective form of masculine gender (since title “Mr.” is used) i.e. “Him” is used after the preposition “to”.

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

Thus, the correct sentence will be:

**Mr. Patel is the manager, so you need to explain to him.**

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

4. A

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

- *Forgiveness* = (noun) the act of forgiving someone i.e. to stop feeling angry with someone who has done something to harm, annoy or upset you.

- *Arrogance* = (noun) the behaviour of a person when they feel that they are more important than other people, so that they are rude to them or do not consider them.
- *Pride* = (noun) a feeling of being pleased or satisfied that you get when you or people who are connected with you have done something well or own something that other people admire.
- *Humility* = (noun) the quality of not thinking that you are better than other people.

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

- “*Arrogance*” as a noun refers to the behaviour of a person when they feel that they are more important than other people, so that they are rude to them or do not consider them. Thus, option B is incorrect.
- “*Pride*” as a noun means a feeling of being pleased or satisfied that you get when you or people who are connected with you have done something well or own something that other people admire. Thus, option C is incorrect.
- “*Humility*” as a noun means being humble i.e. not to think of yourself as better than other people. Thus, option D is incorrect.
- “*Forgiveness*” as a noun means an act of forgiving someone i.e. to stop feeling angry with someone who has done something to harm, annoy or upset you.
- Here in the given sentence, it is used to mention that in order to be happy and at peace, one needs to forgive i.e., stop getting angry at someone who has done something bad to you. An act of revenge won't bring any happiness and peace to you.

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

Thus, the correct sentence will be: **Forgiveness, not revenge, is the key to happiness and peace.**

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

5. B

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

- Structure of simple present tense for negative sentence is:

**Subject + do/does + not + base form of verb + Object**

**For example:**

The government **does not propose** to abandon the project altogether.

I **do not acknowledge** that he has done anything wrong.

- The given negative sentence is set in simple present tense as it mentions the likeness of “cousin”.
- But we have used helping verb “is” wrongly in the negative sentence of simple present tense (active voice).
- If ever helping verb “is” ever used in simple present tense, then it should take “third form of verb” after it i.e., in passive form. This is not the case in the given sentence.
- Thus, “does not like” should be used in place of “is not like” as per the structure of simple future tense for negative sentence.
- Hence, “**does not like**” is the correct substitution.

Thus, the correct sentence will be:

**My cousin does not like going for a walk very much.**

6. C

Sol. **Option C** has correctly spelt word. “**Grammar**” is the correct spelling. It means the rules in a language for changing the form of words and joining them into sentences.

7. D

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

- Simple present tense is used to show an action which happened in the past. It uses third form of verb. It is identified by time words like: “last week/day/month/year”, “yesterday”.

**For example:**

I **bought** some gloves **yesterday**.

The play opened **last week** to universal acclaim.

- The given sentence is set in simple past tense as it uses the time word “last Saturday” that shows the given action (i.e. “go”) happened in the past timeline.
- But we have erroneously used first form of verb “go” in the simple past tense.
- Thus, second form of verb “went” should be used in place of “go” as per the structure of simple past tense.
- Hence, “**went to**” is the correct substitution.

Thus, the correct sentence will be:

**Last Saturday evening we went to a party.**

8. B

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

Active = always busy in doing things.

E.g.: Although he is 80 years old, he is still very **active**.

Quiet = making very little noise.

Busy = having a lot to do; perhaps not free to do something else because you are working on something.

E.g.: I have got enough work to keep you **busy**.

Lazy = unwilling to work or be active.

Similar = like someone/something but not exactly the same.

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

9. A

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

- *Crushed* = (verb) to press someone so hard that he/she is injured or loses its shape.
- *Fell* = (verb) to drop down from a higher level to a lower level.
- *Brushed* = (verb) to clean or make something smooth with a brush.

- *Rushed* = (verb) to move or to do something with great speed, often too fast.

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

- “*Fell*” as a verb means to drop down from a higher level to a lower level. Thus, option B is incorrect.
- “*Brushed*” as a verb means to clean or make something smooth with a brush. Thus, option C is incorrect.
- “*Rushed*” as a verb means to move or to do something with great speed, often too fast. Thus, option D is incorrect.
- “*Crushed*” as a verb means to press someone so hard that he/she is injured or loses its shape.
- Here in the given sentence, it is used to mention that when bike hit a truck, 2 people were pressed so hard that eventually led to their death.

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

Thus, the correct sentence will be: **Two people were crushed to death when a bike hit a truck.**

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

10. A

Sol. Metamorphosis: a process in which someone/something changes completely into something different.

Antibiotic: something that can destroy or prevent the growth of bacteria and cure infections.

Hibernation: a state like deep sleep in which some animals spend the winter.

Camouflaging: to hide someone/something by making them/it/yourself look like the things around, or like something else.

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

11. A

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

- Underlined part needs correction in structure of phrasal verb.
- “Put up with someone/something” as a phrasal verb means to accept someone/something that is annoying, unpleasant, etc. without complaining.

**For example:**

I am not going to **put up with** their smoking any longer.

I don't know how he **puts up with** her.

- In the underlined part of the given sentence, we have missed preposition “with” in the structure of phrasal verb “Put up with”.
- Use of correct phrasal verb ensures the correct meaning i.e. “I” was no longer willing “to accept” his rudeness.
- Thus, “up” should be added after “put” to reflect this meaning in the sentence.
- Hence, “**put up with**” is the correct substitution.

Thus, the correct sentence will be: **I cannot put up with his rudeness any longer.**

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

12. A

Sol. **Option A** has correctly spelt word. “Fulcrum” is the correct spelling. It means the point on which a lever turns or is supported.

13. C

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

- Second Conditionals is used for imaginary situations. IF clause (condition) takes the past tense and mentions the imaginary situations. Main clause (result) takes “would + V1” and mention result of such imaginary situations.

**For example:**

If she **had** any money, he **would help** you.

- The given sentence is a conditional sentence as it uses conjunction “if” to show the condition. But we have erroneously used “be pass” after modal verb “could”.
- If ever “be” is to be used as part of main verb, then “third form of verb” should be used.
- But this is not the case in the given sentence. Also, modal verb takes the base form of verb after it. Thus, “be” should be used removed from “could be pass”.
- Hence, “**They could**” is the correct substitution.

Thus, the correct sentence will be: **They could pass their exams if they studied harder.**

14. A

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

- Underlined part needs correction in preposition used after verb.
- “Tell” as a verb takes an object immediately after it. It does not need a preposition “to” before an object. In contrast to this, verb “say” takes “preposition + object” i.e. “to + object”. Such a difference in use of preposition is quite visible in direct and indirect speech.

**For example:**

**Direct speech:**

The yoga instructor **said to us**, "Doing yoga daily will help you to develop a healthy mind and body."

**Indirect speech:**

The yoga instructor **told us** that doing yoga daily would help us to develop a healthy mind and body.

- In the underlined part of the given sentence, we have erroneously used preposition “to” after continuous form of verb “tell” i.e. “telling”. Thus, preposition “to” should be removed after “telling” so that “Ben” can become an object of verb.
- Hence, “**telling**” is the correct substitution.

Thus, the correct sentence will be: **Juliet is telling Ben to complete the work immediately.**

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

15. C

Sol. The idiom “**Back up**” means extra help or support that someone gets if necessary.

Example: We can use Ramesh as a **backup** if one of the other players drops out.

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

16. D

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

- *Turn from* = (phrasal verb) to become something
- *Turn back* = (phrasal verb) to return the way you have come; to make someone/something do this.
- *Turn off* = (phrasal verb) to stop listening to or thinking about something/someone.
- *Turn down* = (phrasal verb) to reject or refuse.

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

- “*Turn from something into something*” as a phrasal verb means to become something. Thus, option A is incorrect.
- “*Turn back*” as a phrasal verb means to return the way you have come. Thus, option B is incorrect.
- “*Turn off*” as a phrasal verb means to stop listening to or thinking about something/someone. Thus, option C is incorrect.
- “*Turn someone/something down*” as a phrasal verb means to reject or refuse to consider an offer, a proposal etc. or the person who makes it.
- Here in the given sentence, it is used to mention that job offered to Ranjith was so good that it can't be rejected or refused.

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

Thus, the correct sentence will be: **The job offer was too good for Ranjith to turn down.**

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

17. D

Sol. Flexible: able to change to suit new conditions.

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

Pliable: easy to bend without breaking.

Rigid: very strict and difficult to change.

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

18. D

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

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

19. B

Sol. The idiom “**Work out**” means to train the body by physical exercise OR to develop in a successful way.

Example:

I **work out** regularly to keep fit.

Things have **worked out** quite well for all us.

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

20. C

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

Bind = to tie someone/something with rope, string, etc., so that they/it cannot move or are held together.

E.g.: They **bound** his hands to a chair.

Bend = to lean, or make something lean, in a particular direction.

Spoil = to change something good into something bad, unpleasant etc.

Fasten = to attach or tie one thing to another thing.

E.g.: He **fastened** the papers together with a paper clip.

Tighten = to hold or fix something more securely in position.

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

21. A

Sol. The given passage is concerned with "**News report about a robbery**".

"Disease" as a noun means an illness affecting humans, animals or plants, often caused by infection. Thus, option B is wrong.

"Condition" as a noun means the state that something is in. Thus, option C is wrong.

"Problem" as a noun means a thing that is difficult to deal with or to understand. Thus, option D is wrong.

"Fracture" as a noun means a break in a bone or other hard material.

In the given sentence, it is used to mention that man suffered a break in his bone when he attempted to catch a robber.

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

22. D

Sol. The given passage is concerned with "**News report about a robbery**".

"Being sleeping" is an incorrect structure of continuous verb. Thus, option A is wrong.

"Been sleeping" is a part of verb structure that is used to show perfect continuous form. Thus, option B is wrong.

"Had been sleeping" is a verb structure that is used in past perfect continuous tense. Thus, option C is wrong.

"Sleeping" is a continuous form of verb.

In the given sentence, it is used after helping verb "was" to show the past continuous tense. It shows the sleeping state of "man" (i.e. "he").

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

23. B

Sol. The given passage is concerned with "**News report about a robbery**".

"For" as a preposition is used to show the reason or purpose. Thus, option A is wrong.

"By" as a preposition is used for showing how or in what way something is done. Thus, option C is wrong.

"At" as a preposition is used to show when something happens. Thus, option D is wrong.

"About" as an adverb means "a little more or less than" i.e. approximately.

In the given sentence, it is used to mention the "approximate" time of "two hours after midnight" when the man heard noise coming out from the bedroom.

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

24. B

Sol. The given passage is concerned with "**News report about a robbery**".

"Opening" as a noun means a space or a hole that someone/something can pass through. Thus, option A is wrong.

"Closing" as a noun means the act of shutting something such as factory, hospital, school etc. permanently. Thus, option C is wrong.

"Examining" is a continuous form of verb "examine". It means to consider or study an idea, a subject, etc. very carefully. Thus, option D is wrong.

"Breaking" means an entry into a building using force, usually to steal something.

In the given sentence, it is used to show that a man was trying to "break-in" to house. He was stealing jewellery and cash.

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

25. A

Sol. The given passage is concerned with "**News report about a robbery**".

"Ran" as a verb means to move using your legs, going after faster than when you walk. But it misses the essence of going after someone to catch him/her. Thus, option B is wrong.

"Darted" as a verb means to move suddenly and quickly in a particular direction. Thus, option C is wrong.

"Dashed" as a verb means to go somewhere very quickly. Thus, option D is wrong.

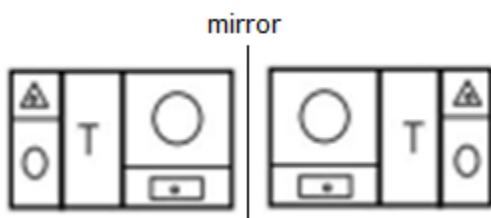
"Chased" as a verb means to run, drive etc. after someone/something in order to catch them or it.

In the given sentence, it is used to show that the man ran after the robber. When robber jumped from the second floor, man also did the same and eventually broke his hip.

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

26. C

Sol. सही दर्पण प्रतिबिम्ब नीचे दिखाया गया है:



इसलिए, विकल्प C सही उत्तर है।

27. C

Sol. यहां कूटबद्ध अक्षर वर्णमाला शृंखला के अनुसार शब्द में दिए गए अक्षरों के विपरीत अक्षर हैं।

जैसाकि,

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

इस प्रकार, ROMAN -> ILNZM

इसी तरह,

FRANCE -> UIZMXV

इसलिए, विकल्प C सही उत्तर है।

28. B

Sol. सभी विकल्पों की जांच करने पर हम पाते हैं कि विकल्प (B) में दिए गए दो प्रतीक समीकरण को सही बनाएंगे;

$$45 + 10 - 125 \div 25 \times 5 = 30$$

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

$$45 + 10 - 125 \div 25 \times 5$$

$$45 + 10 - 5 \times 5$$

$$45 + 10 - 25 = 30$$

अतः, बाई और से = दाई और से

इसलिए, विकल्प B सही उत्तर है।

29. B

Sol. यहां पैटर्न इस प्रकार है:

TRY ->  $20+18+25 = 63$ , शब्द के भीतर अक्षरों की कुल संख्या से विभाजित किया जाता है जो कि  $63 \div 3 = 21$  है।  
इसी तरह,

SAGE ->  $19+1+7+5 = 32$ ;

$$32 \div 4 = 8$$

इसलिए,

COURAGE ->  $3+15+21+18+1+7+5 = 70$ ;

$$70 \div 7 = 10$$

इसलिए, विकल्प B सही उत्तर है।

30. C

Sol. पैटर्न इस प्रकार है:

6	15	3	21	19
F	O	C	U	S
+9	+2	+9	+2	+9
O	Q	L	W	B

15    17    12    23    28

इसी प्रकार,

13	9	14	15	18
M	I	N	O	R
+9	+2	+9	+2	+9

21    11    23    17    1

इसलिए, विकल्प C सही उत्तर है।

31. B

Sol. यहां पहले चार अक्षर स्थिर हैं और आगे के अक्षरों को उनकी स्थिति के अनुसार वर्णानुक्रम में व्यवस्थित किया गया है। इस प्रकार,  
व्यवस्था का क्रम होगा;

5. Caliber

1. Calibrate

4. Calicut

2. California

6. Caliper

3. Caliphate

इसलिए, विकल्प B सही उत्तर है।

32. C

Sol. पैटर्न है: पहले दो अक्षर निकटतम युग्म हैं जबकि तीसरा अक्षर दूसरे अक्षर में (+5) जोड़कर प्राप्त किया जाता है। इसलिए,

E F(6) + {5} -> K(11)

C D(4) + {5} -> I(9)

A B(2) + {5} -> G(7)

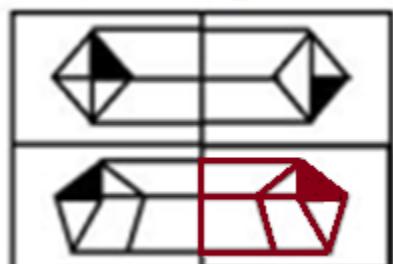
लेकिन,

**G H(8) + {6} -> N(14)**

इसलिए, विकल्प C सही उत्तर है।

33. A

Sol. विकल्प आकृति (A) दी गई आकृति के पैटर्न को पूरा करेगी;



इसलिए, विकल्प A सही उत्तर है।

34. D

Sol. न्यूनतम संभावित वेन आरेख होगा:



निष्कर्षः

- I. सभी ट्री, वुड हैं – यह एक निश्चित मामला नहीं है, इसलिए गलत है।
- II. सभी ब्रांच, वुड हैं – यह एक निश्चित मामला नहीं है, इसलिए गलत है।

इसलिए, विकल्प D सही उत्तर है।

35. B

Sol. पैटर्न इस प्रकार है: व्यंजनों के लिए (+2) जोड़े, स्वरों के लिए यह क्रमशः (AEIOU) -> (12345) के रूप में कूटबद्ध होगा।

Z	E	A	L
+2			+2
B	2	1	N

इसी तरह,

P	L	A	C	E
+2	+2		+2	
R	N	1	E	2

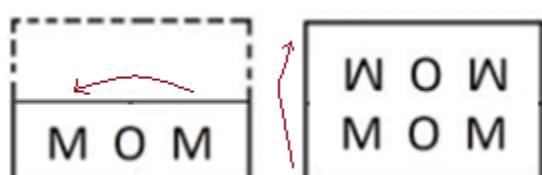
अतः,

M	O	R	N	I	N	G
+2		+2	+2		+2	+2
O	4	T	P	3	P	I

इसलिए, विकल्प B सही उत्तर है।

36. C

Sol. जब कागज की दी गई शीट को खोल दिया जाता है तो यह नीचे दिखाए अनुसार दिखाई देगा:

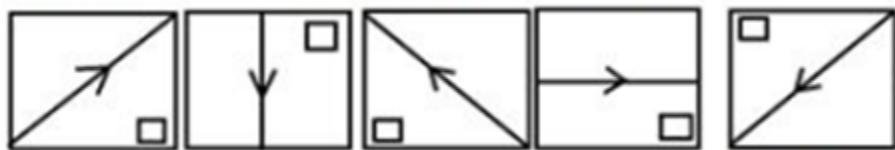


इसलिए, विकल्प C सही उत्तर है।

37. D

Sol. तर्कः तीर की रेखा 45 डिग्री में वामावर्त घूमती है जिस प्रकार दोनों छोर चलते हैं और तीर प्रत्येक चरण में उल्टा चलता है। बॉक्स के आकार का तत्व वैकल्पिक आकृति में एक कदम फिर तीन कदम आगे बढ़ता है। इस प्रकार विकल्प (D) में दी गई आकृति शृंखला को पूरा

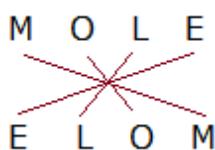
करेगी।



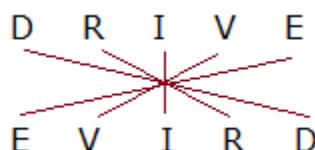
इसलिए, विकल्प D सही उत्तर है।

38. B

Sol. पैटर्न इस प्रकार है:



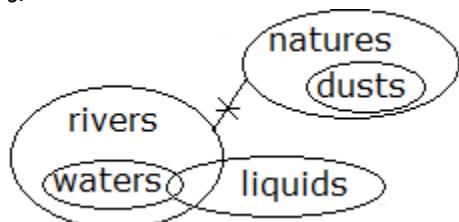
इसी प्रकार,



इसलिए, विकल्प B सही उत्तर है।

39. C

Sol. न्यूनतम संभावित वेन आरेख होगा:



निष्कर्ष:

- I. कुछ नेचर, वाटर हैं – यह एक निश्चित मामला नहीं है, इसलिए गलत है।
- II. सभी नेचर, डस्ट हैं - यह एक निश्चित मामला नहीं है, इसलिए गलत है।
- III. सभी रिवर, लिकिंड हैं - यह एक निश्चित मामला नहीं है, इसलिए गलत है।

अतः, कोई भी निष्कर्ष अनुसरण नहीं करता है।

इसलिए, विकल्प C सही उत्तर है।

40. D

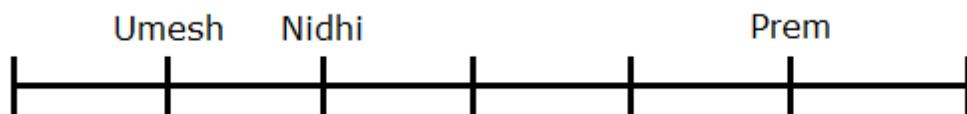
Sol. अध्याय, पुस्तक का एक हिस्सा है, जिस प्रकार कम्पार्टमेंट, दरेन का एक हिस्सा है।

इसलिए, विकल्प D सही उत्तर है।

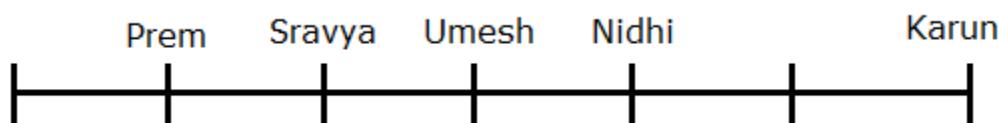
41. D

Sol. दी गई जानकारी के अनुसार: दो मामले होंगे, लेकिन शर्त के अनुसार "श्रव्य, करुण की बाई और से चौथे स्थान पर बैठता है" तथा "श्रव्य एक अंतिम छोर पर नहीं बैठा है"। इस प्रकार मामला 1 समाप्त हो जाता है और हम मामला 2 के साथ आगे बढ़ते हैं;

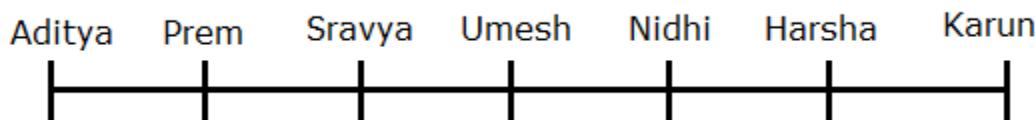
मामला 1:



मामला 2:



अंतिम व्यवस्था होगी:



स्पष्ट रूप से, श्रव्य, प्रेम की ठीक दाईं ओर बैठता है।

इसलिए, विकल्प D सही उत्तर है।

42. D

Sol. पैटर्न इस प्रकार है:

$$1 \times 1 = 1 + 1 = 2$$

$$3 \times 3 = 9 + 2 = 11$$

$$5 \times 5 = 25 + 3 = 28$$

$$7 \times 7 = 49 + 4 = 53$$

$$11 \times 11 = 121 + 5 = 126$$

इसलिए, विकल्प D सही उत्तर है।

43. D

Sol. पैटर्न इस प्रकार है:

$$13 \times 13 = 169; 169 + 13 = 182$$

इसी प्रकार,

$$18 \times 18 = 324; 324 + 18 = 342$$

इसलिए, विकल्प D सही उत्तर है।

44. D

Sol. पैटर्न इस प्रकार है:

$$7 \times 1 = 7$$

$$7 \times 2 = 14$$

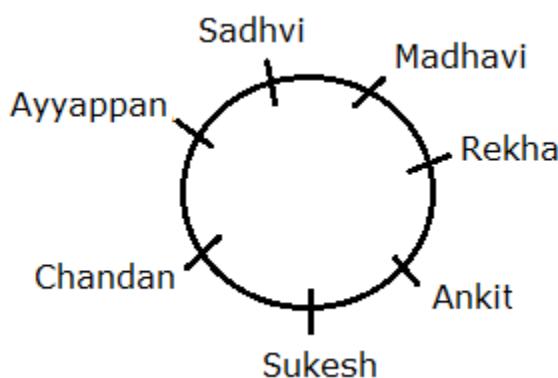
$$14 \times 3 = 42$$

$$42 \times 4 = 168$$

इसलिए, विकल्प D सही उत्तर है।

45. C

Sol. दी गई जानकारी के अनुसार: सभी का मुख केंद्र की ओर है।

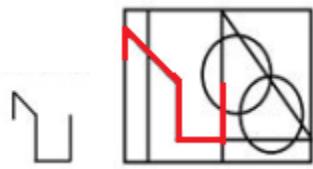


स्पष्ट रूप से, रेखा, माधवी (गलत) की ठीक दाईं ओर है क्योंकि रेखा, माधवी की ठीक बाईं ओर बैठी है।

इसलिए, विकल्प C सही उत्तर है।

46. B

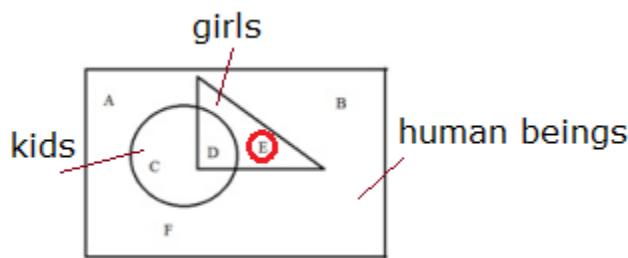
Sol. दी गई आकृति विकल्प आकृति (B) में पूरी तरह से अंतर्निहित है जैसा कि नीचे दिखाया गया है;



इसलिए, विकल्प B सही उत्तर है।

47. B

Sol. दी गई जानकारी के अनुसार यह स्पष्ट है कि भाग 'E' उन मनुष्यों का प्रतिनिधित्व करता है जो लड़कियां हैं लेकिन बच्चे नहीं हैं।



इसलिए, विकल्प B सही उत्तर है।

48. D

Sol. सभी विकल्पों की जांच करने के बाद हम पाते हैं कि विकल्प (D) में दिए गए प्रतीकों को "\*" से प्रतिस्थापित करने पर समीकरण संतुलित हो जाएगा;

$$16 - 280 \times 6 \div 84 + 4 = 0$$

$$16 - 20 + 4$$

$$16 - 16 => 0$$

इस प्रकार, बाईं ओर से = दाईं ओर से

इसलिए, विकल्प D सही उत्तर है।

49. C

Sol. पैटर्न इस प्रकार है:

$$(3 + 4) = 7;$$

$$(7 \times 7 \times 7) = 343$$

इसी प्रकार,

$$(6 + 8) = 14;$$

$$(14 \times 14 \times 14) = 2744$$

अतः;

$$(9 + 2) = 11;$$

$$(11 \times 11 \times 11) = 1331$$

इसलिए, विकल्प C सही उत्तर है।

50. D

Sol. जब प्रकाश की समानांतर किरणें दर्पण से टकराती हैं, तो वे परावर्तित हो जाती हैं। इसी प्रकार श्वेत प्रकाश का कांच के प्रिज्म से गुजरने पर उसके सात अवयवी रङ्गों में विभक्त होना विक्षेपण कहलाता है।

इसलिए, विकल्प D सही उत्तर है।

51. D

Sol. सह-अभाज्य संख्या - वे संख्याएं जिनमें केवल एक उभयनिष्ठ गुणनखंड होता है

दिया है,

$$\text{प्रथम दो संख्याओं का गुणनफल} = 88 = 11 \times 8$$

$$\text{अंतिम दो संख्याओं का गुणनफल} = 165 = 11 \times 15$$

$$\text{इसलिए, तीनों संख्याओं का योग} = 8 + 11 + 15 = 34$$

अतः विकल्प D सही है।

52. A

Sol. माना आयत की लंबाई और चौड़ाई | और b है

$$\text{आयत का क्षेत्रफल} = \text{लंबाई} \times \text{चौड़ाई} = lb$$

$$\text{आयत की नई लंबाई} = (l) \times \frac{(100+25)}{100} = (l) \times \frac{125}{100} = \frac{5l}{4}$$

$$\text{आयत की नई चौड़ाई} = (b) \times \frac{(100+32)}{100} = (b) \times \frac{132}{100} = \frac{33b}{25}$$

$$\text{आयत का नया क्षेत्रफल} = \frac{5l}{4} \times \frac{33b}{25} = \frac{33lb}{20}$$

$$\text{इसलिए, परिणामी आयत के क्षेत्रफल में प्रतिशत वृद्धि} = \frac{\left( \left( \frac{33lb}{20} \right) - lb \right)}{lb} \times 100$$

$$= \frac{13lb}{20lb} \times 100$$

$$= 65\%$$

अतः विकल्प A सही है।

53. A

Sol. माना लड़कों और लड़कियों की संख्या  $5x$  और  $7x$

$$\text{स्कूल में छात्रों की संख्या का योग} = 5x + 7x = 12x$$

$$\text{छात्रों की संख्या } 12 \text{ के गुणज में होगी}$$

$$\text{अतः स्कूल में छात्रों की कुल संख्या } 1440 \text{ हो सकती है}$$

अतः विकल्प A सही है।

54. A

Sol. माना वस्तु का क्रय मूल्य  $x$  रुपये है

$$\text{वस्तु का अंकित मूल्य} = (x) \times \frac{(100+50)}{100} = \frac{150x}{100} = \frac{3x}{2}$$

$$30\% \text{ और } 25\% \text{ की दो क्रमागत छूट देने के बाद वस्तु का विक्रय मूल्य} = \left(\frac{3x}{2}\right) \times \frac{(100-30)}{100} \times \frac{(100-25)}{100} = \left(\frac{3x}{2}\right) \times \frac{70}{100} \times \frac{75}{100} = \frac{63x}{80}$$

दिया है,

$$\text{हानि} = \text{क्रय मूल्य} - \text{विक्रय मूल्य}$$

$$\Rightarrow 850 = (x) - \frac{63x}{80}$$

$$\Rightarrow 850 = \frac{80x - 63x}{80}$$

$$\Rightarrow 850 = \frac{17x}{80}$$

$$\Rightarrow x = \frac{850 \times 80}{17}$$

$$\Rightarrow x = 4000 \text{ रुपये}$$

$$\text{इसलिए, वस्तु का विक्रय मूल्य} = \frac{63x}{80} = \frac{63 \times 4000}{80} = 3150 \text{ रुपये}$$

अतः विकल्प A सही है।

55. D

Sol. सभी क्षेत्रों में एक साथ काम करने वाले लोगों की कुल संख्या = 2800

$$\text{एचआर में काम करने वाली महिलाओं की संख्या} = 2800 \times \frac{18}{360} \times \frac{75}{100} = 105$$

$$\text{इसलिए, अभीष्ट प्रतिशत} = \frac{105}{2800} \times 100 = 3.75\%$$

अतः विकल्प D सही है।

56. B

Sol. डिजाइन के क्षेत्र में कार्यरत महिलाओं की संख्या =  $2800 \times \frac{45}{360} \times \frac{60}{100} = 210$

अतः विकल्प B सही है।

57. B

Sol. सेल्स के क्षेत्र में काम करने वाले पुरुषों की संख्या =  $2800 \times \frac{72}{360} \times \frac{(100-40)}{100} = 2800 \times \frac{72}{360} \times \frac{60}{100} = 336$

आईटी के क्षेत्र में काम करने वाले पुरुषों की संख्या =  $2800 \times \frac{108}{360} \times \frac{(100-45)}{100} = 2800 \times \frac{108}{360} \times \frac{55}{100} = 462$

इसलिए, सेल्स और आईटी के क्षेत्र में काम करने वाले पुरुषों की कुल संख्या =  $336 + 462 = 798$

अतः विकल्प B सही है।

58. C

Sol. हम जानते हैं कि:

$$\text{गति} \propto \frac{1}{\text{समय}}$$

$$\text{गति का अनुपात} = 6 : 10 = 3 : 5$$

$$\text{समय का अनुपात} = 5 : 3$$

इसलिए व्यक्ति द्वारा A से B तक जाने में लगने वाले समय का B से A तक जाने में लगने वाले समय से अनुपात = 5 : 3

अतः विकल्प C सही है।

59. B

Sol. हम जानते हैं कि:

$$\text{मिश्रधन} = P \left(1 + \frac{r}{100}\right)^t$$

$$\Rightarrow 11094 = 9600 \left(1 + \frac{\left(\frac{15}{2}\right)}{100}\right)^t$$

$$\Rightarrow \frac{11094}{9600} = \left(1 + \frac{15}{200}\right)^t$$

$$\Rightarrow \frac{1849}{1600} = \left(\frac{215}{200}\right)^t$$

$$\Rightarrow \left(\frac{43}{40}\right)^2 = \left(\frac{43}{40}\right)^t$$

$$\Rightarrow t = 2 \text{ वर्ष}$$

अतः विकल्प B सही है।

60. B

Sol. दिया है:

$$\text{दरेन की गति} = 90 \text{ किमी/घंटा}$$

$$\text{समय} = 1 \text{ घंटा } 12 \text{ मिनट} = 1 + \frac{12}{60} \text{ घंटा} = 1\frac{1}{5} \text{ घंटा}$$

हम जानते हैं कि:

$$\text{दूरी} = \text{गति} \times \text{समय}$$

$$= 90 \times \frac{6}{5}$$

$$= 108 \text{ किमी}$$

$$\text{दरेन की नई गति} = 90 \times \frac{(100+40)}{100} = 90 \times \frac{140}{100} = 126 \text{ किमी/घंटा}$$

$$\text{इसलिए दूरी का } \frac{7}{3} \text{ भाग तय करने में लगा अभीष्ट समय} = \frac{\frac{7}{3} \times 108}{126} = \frac{7 \times 108}{3 \times 126} = 2 \text{ घंटे}$$

अतः विकल्प B सही है।

61. A

Sol. दिया है:

$$\text{साधारण ब्याज} = 16250 - 12500 = 3750 \text{ रुपये}$$

$$\text{समय} = 4 \text{ वर्ष}$$

हम जानते हैं कि:

$$\text{साधारण ब्याज} = \frac{P \times R \times T}{100}$$

$$\Rightarrow 3750 = \frac{12500 \times R \times 4}{100}$$

$$\Rightarrow R = \frac{3750 \times 100}{12500 \times 4}$$

$$\Rightarrow R = 7.5\%$$

$$\text{ब्याज की नई दर} = 7.5 + 2.5 = 10\%$$

$$\text{इसलिए, उसी अवधि के लिए राशि में वृद्धि} = 12500 + \frac{12500 \times 10 \times 4}{100} = 12500 + 5000 = 17500 \text{ रुपये}$$

अतः विकल्प A सही है।

62. C

Sol. माना वस्तु का क्रय मूल्य  $x$  रुपये है।

$$\text{विक्रय मूल्य} = \text{क्रय मूल्य} \times \frac{(100+\text{लाभ \%})}{100}$$

$$= (x) \times \frac{(100+\frac{53}{4})}{100}$$

$$= \frac{453x}{400}$$

प्रश्नानुसार,

$$\Rightarrow \frac{453x}{400} + 76.70 = (x) \times \frac{(100 + \frac{81}{5})}{100}$$

$$\Rightarrow \frac{581x}{500} - \frac{453x}{400} = 76.70$$

$$\Rightarrow \frac{(2324x - 2265x)}{100 \times 20} = 76.70$$

$$\Rightarrow \frac{59x}{2000} = 76.70$$

$$\Rightarrow x = \frac{76.70 \times 2000}{59}$$

$$\Rightarrow x = 2600 \text{ रुपये}$$

अतः विकल्प C सही है।

63. B

Sol. माना बेलन की तिरज्या x तथा बेलन की ऊँचाई y है

$$\text{बेलन का आयतन} = \pi r^2 h = \pi x^2 y$$

$$\text{बेलन की नई तिरज्या} = (x) \times \frac{(100 + 20)}{100} = 1.2x$$

$$\text{बेलन की नई ऊँचाई} = (y) \times \frac{(100 - 45)}{100} = 0.55y$$

$$\text{बेलन का नया आयतन} = \pi(1.2x)^2(0.55y) = 0.792\pi x^2 y$$

$$\text{इसलिए, बेलन के आयतन में अभीष्ट प्रतिशत कमी} = \frac{(\pi x^2 y - 0.792\pi x^2 y)}{\pi x^2 y} \times 100 = \frac{0.208\pi x^2 y}{\pi x^2 y} \times 100 = 20.8\% \text{ की कमी}$$

अतः विकल्प B सही है।

64. B

Sol.  $8 - 6 + [(27 - 3) \div 6 - 4]$  के 5 का मान

BODMAS के नियम का प्रयोग करने पर –

$$= 5 \times 8 - 6 + \left[ \left( \frac{24}{6} \right) - 4 \right]$$

$$= 40 - 6 + [4 - 4]$$

$$= 34$$

अतः विकल्प B सही है।

65. B

Sol. माना एक पुरुष एक दिन में  $x$  रुपये कमा सकता है और एक महिला एक दिन में  $y$  रुपये कमा सकती है।

$$5 \text{ पुरुष और } 6 \text{ महिलाएं } \text{एक दिन में कमा सकते हैं} = \frac{10500}{6} = 1750 \text{ रुपये}$$

$$5x + 6y = 1750 \dots \text{समीकरण 1}$$

$$8 \text{ पुरुष और } 12 \text{ महिलाएं } \text{एक दिन में कमा सकते हैं} = \frac{24800}{8} = 3100 \text{ रुपये}$$

$$8x + 12y = 3100 \dots \text{समीकरण 2}$$

समीकरण 1 को 2 से गुणकरने पर तथा समीकरण 1 में से समीकरण 2 को घटाने पर:

$$\Rightarrow 10x + 12y - 8x - 12y = 3500 - 3100$$

$$\Rightarrow 2x = 400$$

$$\Rightarrow x = 200$$

समीकरण 1 में  $x$  का मान रखने पर

$$\Rightarrow 5 \times 200 + 6y = 1750$$

$$\Rightarrow 6y = 1750 - 1000$$

$$\Rightarrow y = \frac{750}{6}$$

$$\Rightarrow y = 125 \text{ रुपये}$$

अब,

7 पुरुष और 10 महिलाएं एक दिन में कमा सकते हैं =  $7 \times 200 + 10 \times 125 = 1400 + 1250 = 2650$  रुपये

इसलिए, 7 पुरुषों और 10 महिलाओं द्वारा 26500 रुपये कमाने के लिए अभीष्ट दिन =  $\frac{26500}{2650} = 10$  दिन

अतः विकल्प B सही है।

66. A

Sol. माना भिन्न  $\frac{x}{y}$  है

प्रश्नानुसार,

$$\Rightarrow \frac{(x) \times \frac{(100+25)}{100}}{y \times \frac{\left(100+\frac{125}{4}\right)}{100}} = \frac{5}{14}$$

$$\Rightarrow \frac{(x) \times \frac{125}{100}}{y \times \frac{525}{400}} = \frac{5}{14}$$

$$\Rightarrow \frac{(x) \times \frac{5}{4}}{y \times \frac{21}{16}} = \frac{5}{14}$$

$$\Rightarrow \frac{x}{y} = \frac{5 \times 4 \times 21}{14 \times 5 \times 16}$$

$$\Rightarrow \frac{x}{y} = \frac{3}{8}$$

अतः विकल्प A सही है।

67. A

Sol. हम जानते हैं कि:

$$\text{माध्य} = \frac{\text{"सभी अवलोकनों का योग"}}{\text{"सभी अवलोकनों की संख्या"}}$$

$$\Rightarrow 32 = \frac{\text{"सभी अवलोकनों का योग"}}{70}$$

$$\Rightarrow \text{सभी अवलोकनों का योग} = 2240$$

दो मर्दों को 46 और 81 के बजाय 64 और 28 के रूप में गलत तरीके से पढ़ा गया, सभी अवलोकनों का सही योग =  $2240 - 64 - 28 + 46 + 81 = 2275$

$$\text{इसलिए, सही माध्य} = \frac{2275}{70} = 32.5$$

अतः विकल्प A सही है।

68. D

Sol. दिया है:

$$\text{शंकु का कुल पृष्ठीय क्षेत्रफल} = 1848 \text{ सेमी}^2$$

$$\text{आधार की तिरજ्या और तिर्यक ऊँचाई का योग} = 49$$

हम जानते हैं कि:

$$\text{शंकु का कुल पृष्ठीय क्षेत्रफल} = \pi r(l + r)$$

$$\Rightarrow 1848 = \frac{22}{7} \times r \times 49$$

$$\Rightarrow r = \frac{1848 \times 7}{22 \times 49}$$

$$\Rightarrow r = 12 \text{ सेमी}$$

$$\text{शंकु की तिर्यक ऊँचाई} = 49 - 12 = 37 \text{ सेमी}$$

हम जानते हैं कि:

$$\text{शंकु की ऊँचाई} = \sqrt{(\text{तिर्यक ऊँचाई})^2 - (\text{त्रिज्या})^2}$$

$$= \sqrt{(37)^2 - (12)^2}$$

$$= \sqrt{1369 - 144}$$

$$= \sqrt{1225}$$

= 35 सेमी

इसलिए, शंकु की ऊँचाई = 35 सेमी

अतः विकल्प D सही है।

69. A

Sol. A का हिस्सा =  $\frac{86581}{(9+2)} \times 9 = \frac{86581}{11} \times 9 = 70839$  रुपये

B का हिस्सा =  $\frac{86581}{11} \times 2 = 15742$  रुपये

इसलिए, अभीष्ट अनुपात =  $4 \times 70839 - 10 \times 15742$

$$= 283356 - 157420$$

$$= 125936$$
 रुपये

अतः विकल्प A सही है।

70. B

Sol. माना कुल कार्य = (21, 14) का L.C.M. = 42 इकाई

A द्वारा एक दिन में किया गया कार्य =  $\frac{42}{21} = 2$  इकाई

B द्वारा एक दिन में किया गया कार्य =  $\frac{42}{14} = 3$  इकाई

A और B द्वारा 5 दिनों में किया गया कार्य =  $5(2 + 3) = 5 \times 5 = 25$  इकाई

शेष कार्य =  $42 - 25 = 17$  इकाई

शेष कार्य को पूरा करने में A द्वारा लिया गया समय =  $\frac{17}{2} = 8\frac{1}{2}$  दिन

इसलिए, कार्य को पूरा करने में लगा कुल अभीष्ट समय =  $5 + 8\frac{1}{2} = 13\frac{1}{2}$  दिन

अतः विकल्प B सही है।

71. A

Sol. माना माता और उसके पुत्र की वर्तमान आयु  $6x$  और  $x$  है।

जब पुत्र अपनी माँ के जितना बड़ा हो जाता है, तो पुत्र की आयु  $= x + 5x = 6x$

5x वर्ष बाद उसकी माँ की आयु  $= 6x + 5x = 11x$

5x वर्ष बाद उसके पिता की आयु  $= \frac{11x}{11} \times 13 = 13x$

उनके पिता की वर्तमान आयु  $= 13x - 5x = 8x$

जब पुत्र अब अपने पिता के जितना बड़ा हो जाता है, तब पुत्र की आयु  $= 6x + 2x = 8x$

उसके पिता की आयु  $= 13x + 2x = 15x$

दिया है,

पिता और पुत्र की आयु का योग  $= 115$

$$\Rightarrow 15x + 8x = 115$$

$$\Rightarrow 23x = 115$$

$$\Rightarrow x = \frac{115}{23}$$

$$\Rightarrow x = 5$$

इसलिए, पिता की वर्तमान आयु  $= 8x = 8 \times 5 = 40$  वर्ष

अतः विकल्प A सही है।

72. B

Sol. दिया है,

5 वर्ष पहले दो व्यक्तियों की औसत आयु  $= 7.5$

5 वर्ष पूर्व दो व्यक्तियों की आयु का योग  $= 7.5 \times 2 = 15$

वर्तमान में दो व्यक्तियों की आयु का योग =  $15 + 2 \times 5 = 15 + 10 = 25$

5 वर्ष के बाद दो व्यक्तियों की आयु का योग =  $25 + 2 \times 5 = 25 + 10 = 35$  वर्ष

इसलिए, 5 वर्ष के बाद औसत आयु =  $\frac{35}{2} = 17.5$  वर्ष

अतः विकल्प B सही है।

73. C

Sol. विक्रय मूल्य  $\times 28$  = क्रय मूल्य  $\times 18$

क्रय मूल्य: विक्रय मूल्य = 14 : 9

इसलिए, अभीष्ट हानि प्रतिशत =  $\frac{(14-9)}{14} \times 100 = \frac{5}{14} \times 100 = 35\frac{5}{7}\%$  loss

अतः विकल्प C सही है।

74. A

Sol. दिया है,

$$x - y = 10$$

$$\Rightarrow x = y + 10 \dots\dots \text{समीकरण 1}$$

तथा,

$$\frac{(x) \times \frac{50}{100} + (y) \times \frac{30}{100}}{2} = 34.5$$

$$\Rightarrow \frac{x}{2} + \frac{3y}{10} = 69$$

समीकरण 1 से मान रखने पर

$$\Rightarrow \frac{y+10}{2} + \frac{3y}{10} = 69$$

$$\Rightarrow \frac{5y + 50 + 3y}{10} = 69$$

$$\Rightarrow 8y + 50 = 690$$

$$\Rightarrow 8y = 690 - 50$$

$$\Rightarrow y = \frac{640}{8}$$

$$\Rightarrow y = 80$$

समीकरण 1 में y का मान रखने पर

$$\Rightarrow x = 80 + 10$$

$$\Rightarrow x = 90$$

$$\text{इसलिए, } x \text{ और } y \text{ का औसत} = \frac{90+80}{2} = \frac{170}{2} = 85$$

अतः विकल्प A सही है।

75. D

Sol. माना आयत की लंबाई और चौड़ाई l और b है

दिया है,

आयताकार शीट का परिमाप = 94

$$\Rightarrow 2(l + b) = 94$$

$$\Rightarrow l + b = 47 \dots\text{समीकरण 1}$$

आयताकार शीट का क्षेत्रफल = 420

$$\Rightarrow lb = 420 \dots\text{समीकरण 2}$$

हम जानते हैं कि:

$$A^2 + B^2 = (A + B)^2 - 2AB$$

$$\text{विकर्ण की लंबाई} = \sqrt{l^2 + b^2}$$

$$= \sqrt{(l+b)^2 - 2lb}$$

$$= \sqrt{(47)^2 - 2 \times 420}$$

$$= \sqrt{2209 - 840}$$

$$= \sqrt{1369}$$

$$= 37 \text{ मी}$$

इसलिए, विकर्ण की लंबाई 37 मीटर होगी

अतः विकल्प D सही है।

76. A

Sol. \* मार्गोमकली कोट्टायम और तिरशूर जिलों (केरल) के सीरियाई ईसाइयों की एक सांस्कृतिक लोक कला है।

\* यह सेंट थॉमस क्रिश्चियन समुदाय का एक प्राचीन भारतीय दौर का नृत्य है।

\* पिनाराई विजयन केरल के वर्तमान मुख्यमंत्री हैं।

\* आरिफ मोहम्मद खान केरल के वर्तमान राज्यपाल हैं।

77. B

Sol. \* स्वपोषी जीवों की ऊर्जा और कार्बन की आवश्यकता की पूर्ति प्रकाश संश्लेषण द्वारा की जाती है।

\* प्रकाश संश्लेषण वह प्रक्रिया है जिसके द्वारा पौधे ऑक्सीजन और ऊर्जा बनाने के लिए सूर्य के प्रकाश, जल और कार्बन डाइऑक्साइड का उपयोग करते हैं।

\* प्रकाश संश्लेषण के दौरान पौधे हवा और मिट्टी से कार्बन डाइऑक्साइड ( $\text{CO}_2$ ) और जल ( $\text{H}_2\text{O}$ ) ग्रहण करते हैं।

78. D

Sol. \* जोग जलप्रपात शरवती नदी पर स्थित एक जलप्रपात है।

\* यह कर्नाटक के शिवमोग्गा जिले के सागर तालुक के पास पश्चिमी घाट में स्थित है।

\* यह भारत का दूसरा सबसे ऊंचा तैरने का जलप्रपात है।

\* शरवती नदी का उद्गम कर्नाटक के तीर्थहल्ली तालुक में अंबुतीर्थ नामक स्थान से होता है।

\* यह पूरी तरह कर्नाटक राज्य में बहती है।

\* यह भारत की पश्चिम की ओर बहने वाली प्रमुख नदियों में से एक है।

79. C

Sol. \* मंदसौर की संधि 6 जनवरी 1818 को होलकर वंश और अंग्रेजों के बीच हुई थी।

\* महिदपुर की लड़ाई 21 दिसंबर 1817 को महिदपुर में होलकर राजवंश और ब्रिटिश ईस्ट इंडिया कंपनी के बीच तीसरे एंग्लो-मराठा युद्ध के दौरान लड़ी गई थी।

\* होल्कर वंश भारत में धनगर मूल का एक मराठा वंश था।

\* होल्कर पेशवा बाजीराव प्रथम के अधीन सेनापति थे।

\* राजवंश की स्थापना मल्हार राव ने की थी।

80. A

Sol. \* अधिकांश उल्काएं वायुमंडल की मेसोस्फीयर परत में जलती हैं।

\* मेसोस्फीयर पृथ्वी के वायुमंडल की तीसरी और सबसे ठंडी परत है।

\* यह स्ट्रैटोपॉज़ के ऊपर लगभग 80 किमी की ऊँचाई तक विस्तृत है।

81. B

Sol. \* नीलाचल पहाड़ी या कामगिरी पहाड़ी गुवाहाटी, असम के पश्चिमी भाग में स्थित है।

\* प्रसिद्ध कामाख्या मंदिर नीलाचल पहाड़ियों पर स्थित है।

\* हिमंत बिस्वा सरमा असम के वर्तमान मुख्यमंत्री हैं।

\* जगदीश मुखी असम के वर्तमान राज्यपाल हैं।

82. A

Sol. \* भारतीय संविधान का अनुच्छेद 72 कुछ मामलों में राष्ट्रपति को क्षमादान, आदि देने और सजा को निलंबित करने, हटाने या बदलने की शक्ति को परिभाषित करता है।

\* संविधान का अनुच्छेद 81 लोक सभा या लोक सभा की संरचना को परिभाषित करता है।

\* संविधान का अनुच्छेद 55 राष्ट्रपति के चुनाव के तरीके से संबंधित है।

\* संविधान के अनुच्छेद 63 में उपराष्ट्रपति के पद का प्रावधान है।

83. D

Sol. \* फवाद मिर्जा एक भारतीय घुड़सवारी हैं।

\* उन्होंने इंडोनेशिया के जकार्ता में एशियाई खेलों 2018 में इक्वेस्ट्रियन जंपिंग फाइनल में दो रजत पदक जीते।

\* 1982 के बाद एशियाई खेलों में व्यक्तिगत घुड़सवारी स्पर्धा में पदक जीतने वाले वे पहले भारतीय हैं।

84. D

Sol. \* प्रधानमंत्री आवास योजना (पीएमएवाई) 25 जून 2015 को शुरू की गई थी।

\* इसके दो घटक हैं: शहरी गरीबों के लिए प्रधानमंत्री आवास योजना (शहरी) और ग्रामीण गरीबों के लिए प्रधानमंत्री आवास योजना (ग्रामीण)।

\* पीएमजीएवाय (PMGAY) योजना के तहत, मैदानी क्षेत्रों में ₹120,000 और दुर्गम क्षेत्रों (उच्च भूमि क्षेत्र) में ₹130,000 की वित्तीय सहायता आवासों के निर्माण के लिए प्रदान की जाती है।

85. C

Sol. \* 17वीं लोकसभा में कुल 78 महिला राजनेताओं की संख्या सबसे अधिक है जो लगभग 14% है।

\* पिछली लोकसभा में 62 महिला सांसद थीं।

\* ओडिशा में महिला सांसदों का प्रतिशत सबसे अधिक है।

\* जम्मू-कश्मीर और हिमाचल प्रदेश से कोई महिला सांसद नहीं हैं।

86. B

Sol. \* भारतीय निशानेबाज इलावेनिल वलारिवन ने 2018 आईएसएसएफ जूनियर विश्व कप में 10 मीटर एयर राइफल वर्ग में स्वर्ण पदक जीता।

\* उन्होंने 2019 में विश्व विश्वविद्यालय खेलों में एक स्वर्ण पदक और एक रजत पदक जीता।

\* उन्होंने विश्व जूनियर विश्व कप सुहल 2019 में स्वर्ण पदक भी जीता।

\* वह तमिलनाडु के कुड़डालोर की रहने वाली हैं।

87. B

Sol. विकल्प B सही उत्तर है।

\* एंजाइम जटिल अणुओं जैसे कार्बोहाइड्रेट, प्रोटीन, वसा आदि को सरल अणुओं में तोड़ने में मदद करते हैं।

\* एंजाइम जैविक उत्प्रेरक हैं।

88. D

Sol. \* हरियाणा में 1987 में चौधरी देवीलाल ने न्याय युद्ध आंदोलन का नेतृत्व किया था।

\* यह न्याय के लिए संघर्ष था।

\* चौधरी देवीलाल ने 1989 से 1991 तक भारत के छठे उप-प्रधानमंत्री के रूप में कार्य किया।

\* उन्होंने पहले 1977-79 में और फिर 1987-89 में हरियाणा के मुख्यमंत्री के रूप में कार्य किया।

89. C

Sol. \* भावार्थ दीपिका और अमृतानुभव महाराष्ट्र के लोगों की पवित्र पुस्तकें हैं।

\* दोनों पवित्र पुस्तकें मराठी संत और कवि संत ज्ञानेश्वर द्वारा लिखी गई हैं।

\* भावार्थ दीपिका (ज्ञानेश्वरी) भगवद गीता पर एक भाष्य है।

90. C

Sol. विकल्प C सही उत्तर है।

\* गैस विनिमय के लिए कीड़ों में वायु नलिकाओं के जाल को ट्रेकिआ (Tracheal) कहते हैं।

\* ट्रेकिआ (Trachea) को विंडपाइप (श्वासनली) के नाम से भी जाना जाता है।

91. B

Sol. \* 2020-21 में रक्षा मंत्रालय को 4,71,378 करोड़ रुपये आवंटित किए गए थे।

\* रक्षा मंत्रालय को दिया जाने वाला आवंटन केंद्र सरकार के सभी मंत्रालयों में सबसे अधिक आवंटन है।

\* वित्त वर्ष 2022-23 के लिए वित्त मंत्री ने रक्षा मंत्रालय को 525,166.15 करोड़ रुपये आवंटित किए हैं।

\* राजनाथ सिंह भारत के वर्तमान रक्षा मंत्री हैं।

92. A

Sol. \* सर्वेंट्स ऑफ इंडिया सोसाइटी की स्थापना गोपाल कृष्ण गोखले ने की थी।

\* इसका गठन 12 जून, 1905 को पुणे, महाराष्ट्र में हुआ था।

\* 1905 में, गोपाल कृष्ण गोखले को भारतीय राष्ट्रीय कांग्रेस के अध्यक्ष के रूप में चुना गया था।

\* 1899 में, वह बॉम्बे लेजिस्लेटिव कार्डिनल के लिए चुने गए।

\* उन्हें महात्मा गांधी का राजनीतिक गुरु माना जाता है।

93. C

Sol. \* व्हाय आई एम एन अथिस्ट 1930 में लाहौर सेंट्रल जेल में भगत सिंह द्वारा लिखा गया एक निबंध है।

\* यह निबंध 27 सितंबर 1931 को लाला लाजपत राय के अंगरेजी साप्ताहिक "द पीपल" में प्रकाशित हुआ था।

\* वह हिंदुस्तान सोशलिस्ट रिपब्लिकन एसोसिएशन के सदस्य थे।

\* 23 मार्च 1931 को लाहौर सेंट्रल जेल में लाहौर षड्यंतर में भगत सिंह को फांसी दे दी गई थी।

94. C

Sol. \* लार (**Saliva**) में लिंगुअल लाइपेज नामक एंजाइम होता है, जो वसा को तोड़ता है।

\* लिंगुअल लाइपेस ट्राइग्लिसराइड्स को ग्लिसराइड और फैटी एसिड घटकों में तोड़ देता है।

\* लाइपेज जीभ में कोशिकाओं द्वारा निर्मित होता है।

\* लार में **99% पानी** होता है।

\* शेष 1% लार में पाचन एंजाइम, यूरिक एसिड, इलेक्ट्रोलाइट्स, बलगम बनाने वाले प्रोटीन और कोलेस्ट्रॉल होते हैं।

95. A

Sol. \* केंद्रीय बजट 2020 को तीन विषयों में सूचीबद्ध किया गया था।

\* केंद्रीय बजट 2020 के तीन विषय "एस्प्रेशनल इंडिया, इकॉनोमिक डेवलपमेंट, ए कैरिंग सोसाइटी" हैं।

\* एस्प्रेशनल इंडिया के पहले विषय के तहत, केंद्रीय बजट कौशल, शिक्षा और कृषि पर केंद्रित था।

96. A

Sol. विकल्प A सही उत्तर है।

\* पश्मीना शॉल कश्मीरी बकरियों के आंतरिक रोएं (underfur) से प्राप्त ऊन से बुनी जाती है।

\* कश्मीरी बकरी के नीचे का फर नरम होता है।

\* ऊन भेड़, बकरी, याक और कुछ अन्य जानवरों से प्राप्त की जाती है।

97. A

Sol. \* कमसले नृत्य मैसूर कर्नाटक क्षेत्र में एक लोकप्रिय लोक-नृत्य है।

\* यह भगवान महादेश्वर के भक्तों द्वारा किया जाता है।

\* कमसले पीतल का बना वाद्य यंत्र है।

\* इसकी उत्पत्ति पौराणिक काल से मानी जाती है।

98. D

Sol. \* चक्रधर समारोह का आयोजन उस्ताद अलाउद्दीन खान संगीत अकादमी और चक्रधर ललित कला केंद्र द्वारा किया जाता है।

\* यह आयोजन पहली बार वर्ष 1985 में आयोजित किया गया था।

\* यह आयोजन महान राजा और संगीतकार महाराजा चक्रधर सिंह की स्मृति में प्रतिवर्ष आयोजित किया जाता है।

\* उन्होंने संगीत में रायगढ़ घराने की स्थापना की।

99. A

Sol. \* 'रिखम्पदा' अरुणाचल प्रदेश का पारंपरिक नृत्य है।

\* यह अरुणाचल प्रदेश के निचले सुबनसिरी जिले की निशि जनजाति का नृत्य है।

\* पेमा खांडू अरुणाचल प्रदेश के वर्तमान मुख्यमंत्री हैं।

\* बी डी मिश्रा अरुणाचल प्रदेश के वर्तमान राज्यपाल हैं।

100. B

Sol. \* यूरोप से भारत के लिए केप मार्ग की खोज वास्को डी गामा ने की थी।

\* वह 17 मई, 1498 को केप ऑफ गुड होप (अफ्रीका) के माध्यम से कालीकट के बंदरगाह पहुंचे और कालीकट के हिंदू शासक, ज़मोरिन ने उनका स्वागत किया।

\* कोचीन भारत में पुर्तगालियों की प्रारंभिक राजधानी थी।