



**SSC MTS 2020 Tier I : 11**

**Oct S3**

**Mock Test Questions & Solutions**

# **Mock Test Solutions in English**

## Questions

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

## HEFTY

- |             |             |
|-------------|-------------|
| A. handsome | B. generous |
| C. slight   | D. liberal  |

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

## SMUDGE

- |          |          |
|----------|----------|
| A. stain | B. sweet |
| C. trash | D. mud   |

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

The quarantine period for travellers by road into this State has been increased to 28 days.

- |             |              |
|-------------|--------------|
| A. advanced | B. increased |
| C. expanded | D. enlarged  |

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

## The first people to live in an area

- |               |           |
|---------------|-----------|
| A. Provincial | B. Native |
| C. Colonial   | D. Local  |

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

## Fit as a fiddle

- A. To be in excellent health and good working order      B. About to buy a good musical instrument  
C. Ready to start playing a fiddle                          D. To have an expensive musical instrument

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

After she received an overripe papaya, Vidya exclaimed that she would never ever \_\_\_\_\_ fruits online.

C. orders

D. Ordering

7. Select the MISSPELT word.

A. Eminent

B. Tolerance

C. Weary

D. Happiness

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

Elbow grease

A. Oil on the shirt sleeve

B. Too much cream on hands

C. Stain on a car glass

D. A lot of physical effort

9. 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'.

Keep pets can be very comforting for most people.

A. Keeping pet

B. Keeps pet

C. No substitution required

D. Keeping pets

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

According to the meteorology department, yesterday Assam had the heavier rainfall of the decade.

A. yesterday Assam had

B. the heavier rainfall of the decade

C. According to

D. the meteorology department

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

After the rain the roads was wet and waterlogged in some places.

A. After the rain

B. wet and waterlogged

C. in some places.

D. the roads was

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

The Minister's office \_\_\_\_\_ press statement that the Webinar which had been held on the previous day had received an excellent response.

A. have issue

B. issues

C. issued

D. will issued

13. 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'.

At first, we cruised in the local river beside trying anything more adventurous.

- A. already
- B. before
- C. No substitution required
- D. Earlier

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

There was very poor receptivity due from technological glitches; nonetheless, the online class was continued.

- A. There was very poor receptivity
- B. the online class was continued
- C. due from technological glitches
- D. Nonetheless

15. Select the most appropriate option to substitute the underlined segment. If no substitution is required, select 'No substitution required'.

The doctor asked the patient what he had ate the previous night.

- A. No substitution required
- B. had he eaten
- C. had he ate
- D. he had eaten

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

The patient's family had to go through a lot of trouble to \_\_\_\_\_ her into a hospital.

- A. join
- B. admit
- C. access
- D. Permit

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

PRIORITY

- A. dignity
- B. formality
- C. paucity
- D. Precedence

18. Select the MISSPELT spelt word.

- A. Business
- B. Dreadful
- C. Emergены
- D. Inflammable

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

Special words and phrases used by particular groups of people, especially in their work.

- A. Dialogue
- B. Elocution
- C. Conversation
- D. Jargon

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

FATIGUE

- A. strength
- B. control
- C. weakness
- D. Threat

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

Lin Piao used to absent himself (1) \_\_\_\_\_ classes very often and one day (2) \_\_\_\_\_ principal of the college made up his (3) \_\_\_\_\_ to expel him. So he sent for the (4) \_\_\_\_\_ man. Lin arrived just (5) \_\_\_\_\_ the principal was about to go for lunch. "Is this the time to come?" said the principal, sternly.

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

- A. from
- B. in
- C. for
- D. To

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

- A. a
- B. an
- C. some
- D. The

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

- A. brain
- B. thought
- C. mind
- D. Head

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

- A. immature
- B. young
- C. youthful
- D. Childish

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

- A. also
- B. why
- C. how
- D. As

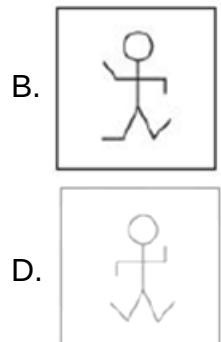
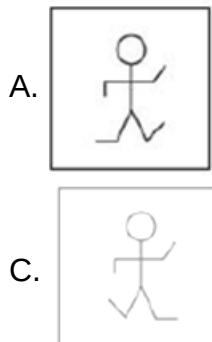
26. **Select the option that is related to the third term in the same way as the second term is related to**

the first term.

Square : Rectangle :: Rhombus : ?

- A. Cuboid
- B. Trapezium
- C. Kite
- D. Parallelogram

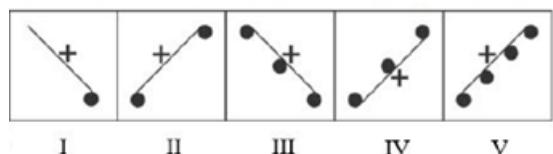
27. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.



28. Kilogram' is related to 'Vegetables' in the same way as 'Litre' is related to '\_\_\_\_\_'.  
\_\_\_\_\_.

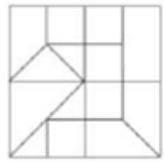
- A. Bananas
- B. Pulses
- C. Milk
- D. Grass

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



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

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



- A. 

B. 

C. 

D. 

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

121, 57, 21, 5, ?



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

## **Statements:**

- 1) All children study in class V.
  - 2) Some children go to coaching.
  - 3) Some children are brilliant.

### **Conclusions:**

- I. All children who go to coaching are brilliant.
  - II. Children who go to coaching also study in class V.
  - III. All children who study in class V are not brilliant.

- A. Both conclusions I and II follow.  
B. Both conclusions II and III follow.  
C. Only III follows.  
D. Only II follows.

33. Six students, A, B, C, D, E and F, are standing facing north. They are not standing in alphabetical order. A is at one corner and F is beside him. B is to the immediate right of E. B is at the second place from the right end. C is not beside F. Who is standing at the right end?

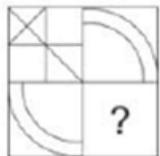
A. A  
B. E  
C. D  
D. C

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

C U KZU K UC



35. Complete the missing portion of the given pattern by selecting from the given option.



- A. 

B. 

C. 

D. 

C. YESM

D. USME

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

26, 37, 50, 65, ?, 101

A. 78

B. 82

C. 80

D. 92

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

**Statements:**

1) Suhani is a player.

2) No boy is a player.

3) All tall persons are players.

**Conclusions:**

D. Suhani is not a tall person.

II. Boys are not tall persons.

A. Neither conclusion I nor II follows.

B. Only conclusion II follows.

C. Both conclusions I and II follow.

D. Only conclusion I follows.

40. Arrange the following in a logical and meaningful order. (increasing order of their heights)

I. Eiffel Tower

II. Empire State Building

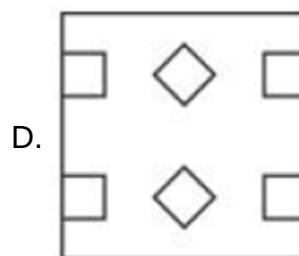
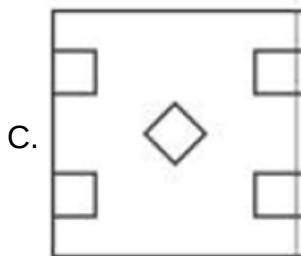
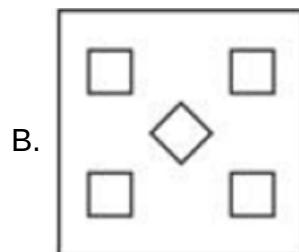
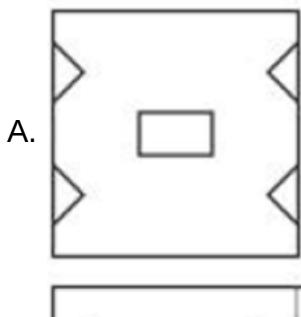
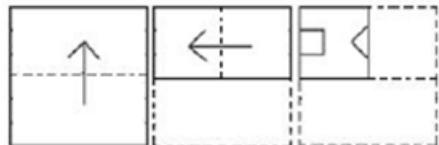
III. Qutub Minar

IV. Burj Khalifa

- A. IV, II, I, III
- C. III, II, I, IV

- B. I, IV, II, III
- D. I, II, III, IV

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



42. Select the set of numbers from the given options which is NOT similar to the given set.

(12, 81, 15)

- A. (11, 69, 12)
- C. (13, 85, 17)

- B. (15, 93, 16)
- D. (8, 63, 13)

43. Select the option in which the number-pair shares the same relationship as that shared by the given number-pair.

347 : 117

- A. 242 : 82
- B. 165 : 56

$$7 * 2 * 5 * 4 * 2 * 15$$

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

46. There are seven row houses, M, N, O, P, Q, R and S, in a campus. They are not located in alphabetical sequence. P is not at any end. R is to the immediate right of P. S is third from the left. O is at the left end. M is second from the right. O is not with N. Where is Q located?

A. Third from the right      B. At the right end  
C. Second from the left      D. Fourth from the right

47. If in a code language, 'SOLD' is written as 'HLOW', then how will 'ROME' be written in the same code language?

A. GLPK      B. ILNV  
C. ILHW      D. GLPV

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

$$3 \div 6 - 2 + 8 \times 4 = 18$$

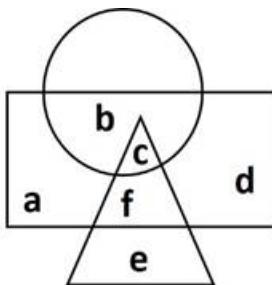


STEAM : PWBDJ :: DRESS : ?

- C. AVBUP

- D. AOBVV

50. In the given figure, the circle represents ‘kids who can sing’, the rectangle represents ‘kids who can play’, and the triangle represents ‘kids who can dance’. Which part of the figure represents ‘kids who can dance but CANNOT sing?



- A. e  
C. f

- B. c
  - D. e and f

51. There were 1200 students in a hostel. If the number of students is increased by 300, then the expenses of the mess increase by Rs. 5,000 per day, while the average expenditure per head diminishes by Rs. 5. The original expenditure of the mess, per day, is:





53. A sum of Rs. 16,000 is divided between Rahul and Vinod. Rahul invested his sum at 7.5% p.a for 4 years at simple interest, and Vinod invested his sum at 12% p.a for 4 years at simple interest. If the total interest received by Rahul and Vinod together is Rs. 6,024, then the sum invested by Rahul is:



54. What number must be added to each of the numbers 7, 4 and 2 so that the resulting numbers may be in a continued proportion?



55. If a number of pens and pencils are bought in the ratio of 5 : 3, then Ashok has to pay Rs. 44. If the ratio is

changed as 3 : 5, then he has to pay Rs. 36. Find the ratio of the price of one pen to one pencil.



56. **Direction:** The given pie chart shows the monthly saving and expenditure incurred by a family on various items. Study the chart and answer the question given below.



If the expenditure on housing is Rs. 1,680 more than that on clothing, then the yearly savings are:



57. The central angle of food and education together is:

- A.  $218^{\circ}$       B.  $206^{\circ}$   
C.  $216^{\circ}$       D.  $116^{\circ}$

58. If the monthly savings are Rs. 5000, then the total expenditure on education and clothing is:



59. A cylindrical pillar is 75 cm in diameter and 5.6 m in height. The cost of painting the curved surface of the pillar at the rate of Rs. 15 per  $\text{m}^2$  is:

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



60. The ratio of the curved surface area and the volume of a closed cylinder is  $4 : 7$ . If its total surface area is  $253 \text{ cm}^2$ , then its height is:

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

- A.  $\frac{1}{8}$       B.  $\frac{1}{3}$   
C.  $\frac{1}{16}$       D. 1
68. The internal and external radii of a hollow hemispherical bowl are 20 cm and 23 cm, respectively. What is the total surface area (in  $\text{cm}^2$ ) of the bowl?
- A.  $2082\pi$       B.  $1858\pi$   
C.  $1987\pi$       D.  $2194\pi$
69. The mean of the prime numbers between 20 and 45 is:
- A. 36      B. 34  
C. 24      D. 32
70. An article was sold at  $\frac{4}{3}$  times of its cost price. The profit percentage is:
- A.  $33\frac{1}{4}\%$       B.  $33\frac{1}{3}\%$   
C.  $33\frac{1}{5}\%$       D.  $32\frac{1}{3}\%$
71. The total surface area of a solid right circular cylinder is  $1617 \text{ cm}^2$ . If the diameter of its base is 21 cm, then what is its volume (in  $\text{cm}^3$ )? Take  $\pi = \frac{22}{7}$
- A. 4851      B. 5228  
C. 5324      D. 3971
72. Dheeraj can cover a certain distance in 5 hours and 22 minutes by covering three-fourth of the distance at 5 km/h and the rest at 6 m/h. Find the total distance covered by him.
- A. 28 km      B. 30 km  
C. 25 km      D. 26 km
73. A can do a work in 20 days and B can do it in 14 days. If they work together for 7 days, then the fraction of the work left is:
- A.  $\frac{3}{10}$       B.  $\frac{3}{20}$   
C.  $\frac{7}{20}$       D.  $\frac{7}{10}$
74. Sonu Kumar spends 42% of his monthly salary on food, 16% on rent, 10% on entertainment and 7% on transport. But to meet the requirement of Rs 18000 due to family program, he had to take a loan of Rs

12,500 from a moneylender. Find his monthly salary.

- A. Rs. 22,000      B. Rs. 24,000  
C. Rs. 20,000      D. Rs. 25,000

75. Two successive discounts, the first being  $14\frac{1}{2}\%$ , were given on an article having a marked price of Rs. 12,500. Finally, it was sold for Rs. 9,405. How much was the second discount?  
A. 10%      B. 9%  
C. 8%      D. 12%
76. Which of the following festival is also known as 'Manipuri Nav year'?  
A. Gang-nagi      B. Cheiraoba  
C. Koot      D. Hikaruhidongba
77. Tilaiya Ultra Mega Power Project is located in which of the following state?  
A. Gujarat      B. Jharkhand  
C. Maharashtra      D. Madhya Pradesh
78. Who among the following was the President of India when the National Emergency was declared in 1975?  
A. Zakir Hussain      B. Varahagiri Venkat Giri  
C. Fakhruddin Ali Ahmed      D. Neelam Sanjiva Reddy
79. Which of the following is a property of silicon dioxide?  
A. It is soluble in water.      B. It is a good conductor of electricity.  
C. It is soft.      D. It has a high melting point.
80. How many natural isotopes of carbon are there?  
A. 3      B. 2  
C. 5      D. 4
81. Vikramaditya VI, whose court poet Bilhan wrote his biography, was the ruler of the \_\_\_\_\_ dynasty.  
A. Chalukya      B. Pallavas  
C. Rashtrakuta      D. Ganga
82. According to the Constitution of India, a member of the Union Public Service Commission holds office for a term of six years or till he attains the age of \_\_\_\_\_ years.  
A. 60      B. 68  
C. 65      D. 62
83. Which of the following is a firm run by billionaire Warren Buffett?





### Solutions

1. C

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

Hefty = (of an amount of money) large; larger than usual or expected.

E.g.: They sold it easily and made a **hefty** profit.

Handsome = attractive

Generous = giving or willing to give freely; given freely

Slight = very small in degree

E.g.: There has been a **slight** delay, but we will be landing in just a few minutes.

Liberal = willing to understand and respect other people's behaviour, opinions etc.

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

2. A

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

Smudge= a dirty mark with no clear shape.

E.g.: He had dark **smudges** under his eyes from too many sleepless nights.

Stain = a dirty mark on something, that is difficult to remove

E.g.: How can I get this **stain** out?

Sweet = containing or tasting as if it contains, a lot of sugar

Trash = things that you throw away because you no longer want or need them.

Mud = wet earth that is soft and sticky.

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

3. B

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

- \* Advanced = something that develops and improves.
- \* Increased = to become greater in amount, number, value etc.
- \* Expanded = to become greater in size, number or importance.
- \* Enlarged = to make something bigger.

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

- \* "Advanced" is used in context of "development and improvement". Thus, option A is incorrect.
- \* "Enlarged" is used in context of "zooming into something". Thus, option D is incorrect.

\* "Expanded" focuses on becoming or making something bigger. Thus, it is incorrect in the given context.

\* "Increased" is used only for quantifying purpose i.e. it focus only on numeral value. Here in the given sentence, it is used to mention that the duration of quarantine period was scaled to 28 days.

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

Thus, the correct sentence will be:

**The quarantine period for travellers by road into this State has been increased to 28 days.**

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

4. B

Sol. Provincial: connected with one of the large areas that some countries are divided into, with its own local government.

Native: connected with the people who originally lived in a country before other people, especially white people, came there.

Colonial: connected with or belonging to a country that controls another country.

Local: belonging or connected with the particular place or area that you are talking about.

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

5. A

Sol. The idiom "**Fit as a fiddle**" means in a very good physical condition.

Example: He looks **as fit as fiddle** even at the end of day.

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

6. A

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

- \* Order = is the base form of verb. It means to ask for goods to be made or supplied; to ask for a service to be provided.
- \* Ordered = is the third form of verb “order”.
- \* Orders = is the singular form of verb “order”.
- \* Ordering = is the continuous form of verb “order”

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

- \* “Ordered” is the third form of verb “order”. Thus, option B is incorrect.
- \* “Orders” is the singular form of verb “order” but we need base form of verb without “s/es” after the modal verb “would”. Thus, option C is incorrect.
- \* “Ordering” is the continuous form of verb “order”. Thus, option D is incorrect.
- \* “Order” is a verb form without “s/es” in the end. It can be used after the modal verb “would”. It means asking for goods to be supplied. Here in the given sentence, it is used in context of asking fruits (goods) via online.

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

Thus, the correct sentence will be:

After she received an overripe papaya, Vidya exclaimed that she would never ever order fruits online.

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

7. B

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

“Tolerance” is the correct spelling of the incorrect word “Tolarance”. It means the quality of being willing to accept or tolerate.

The meaning of other words are:

Eminent: famous and respected, especially in a particular profession.

Weary: very tired.

Happiness: the state of feeling or showing pleasure.

8. D

Sol. The idiom “**Elbow grease**” means the effort used in physical work, especially in cleaning or polishing something.

Example: Using the right tool can save a lot of **elbow grease**.

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

9. D

Sol.

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

- \* The underlined part needs correction in verb.
- \* Sometimes a gerund clause is used as a subject.

**For example:**

**Keeping a copy of your letters** is a good idea.

Here, “keeping a copy of your letters” is a gerund clause used as a subject. “A good idea” is a subject complement.

- \* In the underlined sentence, we have erroneously used the first form of the verb as the subject.

- \* Here, a gerund clause should be the subject because the subject complement “very comforting” is used for the entire clause. Thus, gerund form “Keeping” should be used in place of “Keep”.
- \* Also, the noun “pet” is a countable noun. If we were to use “pet” here, we would use the indefinite article “a” before it. But no such option is available.
- \* Hence, “**Keeping pets**” is the correct substitution.

Thus, the correct sentence will be:

**Keeping pets can be very comforting for most people.**

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

10. B

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

\* “Heavy” is an adjective (positive degree) and it means worse than usual. Its comparative degree is “Heavier” and superlative degree is “Heaviest”.

For example:

His unit came under **heavy** fire from insurgents.

The ball in futsal is smaller and **heavier** than a regular football.

Osmium is one of the **heaviest** materials on earth.

\* In the given sentence, we have used the comparative degree of adjective “heavier” which is wrong.

\* Here, the sentence is depicting a superlative sense (see the use of “of the decade”).

- \* Thus, we need an adjective in the superlative degree i.e. "heaviest" in place of comparative degree "heavier".
- \* Hence, "**the heaviest rainfall of the decade**" is the correct substitution.

Thus, the correct sentence will be:

**According to the meteorology department, yesterday Assam had the heaviest rainfall of the decade.**

11. D

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

- \* As per the Subject Verb agreement, the verb should be in accordance with the subject. A singular verb should be used with a singular subject whereas a plural verb should be used with a plural subject.

**For example:**

The **roads** are choked up with traffic.

- \* In the given sentence, we have erroneously used the singular verb "was" for the plural subject "roads". Thus, the plural verb "were" should be used in place of "was".

- \* Hence, "**the roads were**" is the correct substitution.

Thus, the correct sentence will be:

**After the rain the roads were wet and waterlogged in some places.**

12. C

Sol.

Let us understand the meaning of the given words:-

- \* Have issue = is incorrect verb structure of the present perfect tense.
- \* Issues = is a first form of verb used in the present tense.
- \* Issued = is a second form of verb used in the past tense.
- \* Will issued = is an incorrect verb structure of the simple future tense.

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

- \* "Issues" is a first form of verb used in present tense, but we need a verb that is used in past tense. Thus, option B is incorrect.
- \* "Issued" is a second form of verb used in the past tense. The given sentence is set in the past tense and is evident from the usage of the time word "previous day".
- \* Here in the given sentence, the verb "issued" is used to show that through its press statement "Minister's office" formally stated that it had received an excellent response in the Webinar.

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

Thus, the correct sentence will be:

**The Minister's office issued press statement that the Webinar which had been held on the previous day had received an excellent response.**

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

13. B

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

- \* The underlined part needs correction in conjunction.
- \* “Before” as a conjunction is used to show “earlier than the time when”

**For example:**

**Before** I made a decision, I thought carefully about it.

- \* “Already” as an adverb is used to emphasise that a situation or problem exists.

**For example:**

You are not leaving **already**, are you?

- \* “Beside” as a preposition is used to show “next to or at the side of someone/something”.

**For example:**

He sat **beside** her all night.

- \* In the underlined sentence, we need a word that shows the occurrence of action “cruise” earlier than “moving onto more adventurous things”. Thus, conjunction “before” should be used in place of “beside”.

- \* Hence, “**before**” is the correct substitution.

Thus, the correct sentence will be:

**At first, we cruised in the local river before trying anything more adventurous.**

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

14. C

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

\* “Due to something/someone” is the correct usage. It means caused by someone/something; because of someone/something.

**For example:**

The team's success was largely **due to** her efforts.

\* In the given sentence, we have erroneously used preposition “from” after adjective “due”. This is because the meaning of the phrase “due to something” is in consonance with the meaning of the sentence i.e. “poor receptivity” was caused by “technological glitches”. Thus, preposition “to” should be used.

\* Hence, “**due to technological glitches**” is the correct substitution.

Thus, the correct sentence will be:

**There was very poor receptivity due to technological glitches; nonetheless, the online class was continued.**

15. D

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

\* The underlined part needs correction in tense.

\* The past perfect tense has verb structure like: “Had + third form of verb”

**For example:**

He vomited up all that he **had eaten** for lunch.

\* In the underlined sentence, we have used the second form of the verb (ate) after the helping “had”. This is wrong because the third form of verb should be used. Thus, the third form of verb “eaten” should be used in place of the second form of the verb “ate”.

\* Hence, “**he had eaten**” is the correct substitution.

Thus, the correct sentence will be:

**The doctor asked the patient what he had eaten the previous night.**

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

16. B

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

- \* Join = to fix or connect two or more things together
- \* Admit = to allow someone/something to enter a place.
- \* Access = to be able to have or use something especially something that you have a right to.
- \* Permit = to allow someone to do something or to allow something to happen.

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

- \* "Join" is used in context of "connect or fix thiings". Thus, option A is incorrect.
- \* "Access" is used in context of "able to use something with your rights". Thus, option C is incorrect.
- \* "Permit" is used in context of "allowing something". Thus, option D is incorrect.
- \* "Admit" is used in context of "allow someone enter into a place". In context of hospitals, it means to take patients for their special care. Here in the given sentence, it is used to mention that family of patient struggled to get her into hospital for special care.

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

Thus, the correct sentence will be:

**The patient's family had to go through a lot of trouble to admit her into a hospital.**

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

17. D

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

Priority= something that you think is more important than other things and should be dealt with first.

E.g.: Our first **priority** is to improve standards of education in our state.

Dignity = a calm and serious manner that deserves respect.

Formality = a thing that you must do as a formal or official part of a legal process, a social situation etc.

Paucity = a small amount of something; less than enough of something.

Precedence = the condition of being more important than someone else and therefore coming or being dealt with first.

E.g.: Environmental concerns must be given **precedence** over commercial interests.

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

18. C

Sol.

**Option C has incorrectly spelt word.**

“Emergency” is the correct spelling of the incorrect word “Emergensy”. It means a sudden serious and dangerous event or situation that needs immediate action to deal with it.

The meaning of other words are:

Business: the activity of making, buying, selling or supplying goods or services for money.

Dreadful: very bad or unpleasant.

Inflammable: something that can burn easily.

19. D

Sol. Dialogue: a conversation in a book, play or film or in language teaching materials.

Elocution: the ability to speak clearly and correctly, especially in public and pronouncing the words in a way that is considered to be socially acceptable.

Conversation: an informal talk involving a small group of people or only two

Jargon: words or expressions that are used by a particular profession or group of people, and are difficult for others to understand.

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

20. A

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

Fatigue= a feeling of being extremely tired, usually because of hard work or exercise.

E.g.: I was dropping with **fatigue** and could not keep my eyes open.

Strength = the quality of being physically strong.

E.g.: He pushed against the rock with all his **strength**.

Control = the power to make decisions about how a country, an area, an organisation etc. is run

Weakness = lack of physical strength.

Threat = a statement in which you tell someone that you will punish or harm them.

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

21. A

Sol. The given passage is about "**Absenteeism of Lin Piao at college**".

"In" as a preposition is used to show "at a point within an area". Thus, option B is wrong.

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

"To" as a preposition is used for "towards something". Thus, option D is wrong.

"From" as a preposition is used to show what the origin of something/someone is. Here in the given sentence, it is used to show the origin (place) of Lin Piao's absence i.e. "classes".

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

22. D

Sol. The given passage is about "**Absenteeism of Lin Piao at college**".

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

"An" as an indefinite article is used before the countable nouns (having vowel sounds) that have not been mentioned before. Thus, option B is wrong.

“Some” as a determiner is used with uncountable nouns or plural countable nouns to mean “an amount of” or “a number of” when the amount is not given. Thus, option C is wrong.

“The” as a definite article is used before the “job titles”. Also, here “principal” is made specific by connecting it with the “college” and we use definite article before the nouns that are specific.

**Note:** Before the “job titles” we use either no article or “the”.

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

23. C

Sol. The given passage is about **“Absenteeism of Lin Piao at college”**.

“Brain” means the organ inside the head that control movement, thought, memory and feeling. Thus, option A is wrong.

“Thought” means something that you think of or remember. Thus, option B is wrong.

“Head” means the part of the body on top of the neck containing the eyes, nose, mouth and brain. Thus, option D is wrong.

“Make up your mind” is an idiom. It means to decide something. Here in the given sentence, it is used to mention the decision of “expelling” Lin Piao made by the principal.

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

24. B

Sol. The given passage is about **“Absenteeism of Lin Piao at college”**.

“Immature” means behaving in a way that is not sensible and is typical of people who are much younger. Thus, option A is wrong.

“Youthful” is an adjective and it means typical of young people. Thus, option C is wrong.

“Childish” is an adjective and it means connected with or typical of a child. Thus, option D is wrong.

“Young” is a noun and it means not yet old; not as old as others.

The phrase “call for” means to go to get someone or something. Here in the given sentence, the principle asked someone to get “Lin Piao” to his office. And “young man” has been used for the boy “Lin Piao”.

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

25. D

Sol. The given passage is about “**Absenteeism of Lin Piao at college**”.

“Also” as an adverb to show “in addition; too”. Thus, option A is wrong.

“Why” as an adverb is used in questions to ask the reason for or purpose of something. Thus, option B is wrong.

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

“As” as a conjunction is used to show while something else is happening. Here in the given sentence, it is used to mention the “arrival” of Lin while principal was about to “go” for his lunch.

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

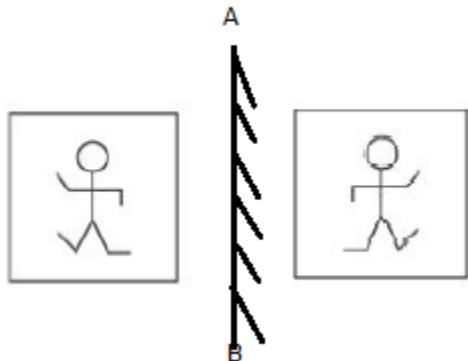
26. D

Sol. Square is a special type of Rectangle, similarly Rhombus is a special type of parallelogram.

Hence, option D is the correct answer.

27. A

Sol. The mirror image of the given figure is shown below.



Hence, option A is the correct answer.

28. C

Sol. Kilogram is used to measure Vegetables similarly Liter is used to measure MILK

Hence, option C is the correct answer.

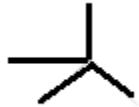
29. D

Sol. The number of back dots is increasing by one in next figure, but in IV figure it is only three black dots instead of four

Hence, option D is the correct answer.

30. D

Sol. The figure which is NOT embedded in the given figure -



Hence, option D is the correct answer.

31. C

Sol.  $121 - 82 = 57$

$$57 - 62 = 21$$

$$21 - 42 = 5$$

$$5 - 22 = 1$$

Hence, option C is the correct answer.

32. D

Sol. Conclusions:

I. All children who go to coaching are brilliant = false, some children are brilliant it is not given that children who goes to coaching are brilliant.

II. Children who go to coaching also study in class V- true as it is given that all student study in class V, and some children go to coaching so it is true that children who go to coaching also study in class V.

III. All children who study in class V are not brilliant- false, as it is given that some children are brilliant and all children study in class V.

Hence, option D is the correct answer.

33. D

Sol. The arrangement of students as per the instruction is

A	F	D	E	B	C
---	---	---	---	---	---

Hence, option B is the correct answer.

34. A

Sol. In this letter series pattern CKZU is repeating

CKZU/CKZU/CKZU/C

Hence, option A is the correct answer.

35. D

Sol.

The figure given below will complete the given pattern.



Hence, option D is the correct answer.

36. B

Sol. '137' means 'who are you'

'274' means 'we are girls'

'893' means 'you have toys'

7= girls

3= you

1= who

Hence, option B is the correct answer.

37. A

Sol.

R+2=T	S+2=U
O+4=S	O+4=S
S+6=Y	M+6=S
E+8=M	E+8=M

Hence, option A is the correct answer.

38. B

Sol.  $26+11=37$

$$37+13=50$$

$$50+15=65$$

$$65+17=82$$

$$82+19=101$$

Hence, option B is the correct.

39. B

Sol. Conclusions:

D. Suhani is not a tall person- False as it is given suhani is a player and all tall persons are player so it can be concluded suhani is a tall person

II. Boys are not tall persons – true as no boy is a player and all tall persons are players, so it can be concluded that boys are not tall persons.

Hence, option B is the correct answer.

40. C

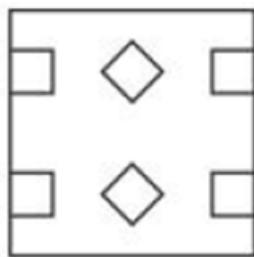
Sol. These given building are arranged in the increasing height order

Qutubminar

Hence, option C is the correct answer.

41. D

Sol. When paper is folded and then cut as per the instruction given in the questions, pattern formed after unfolding the paper is given below



Hence, option C is the correct answer.

42. C

Sol. The logic here is middle number = (first number + last number) \* 3

$$(12, 81, 15) = (12+15)*3=81$$

$$(15, 93, 16) = (15+16)*3=93$$

$$(8, 63, 13) = (8+13)*3=63$$

$$(13, 85, 17) = (13+17)*3=90 \text{ not equal to } 85$$

Hence, option C is the correct answer.

43. A

Sol.  $347 : 117$

$$117*3 - 4 = 351 - 4 = 347$$

Similarly, in  $242 : 82$

$$82*3-4=246-4=242$$

Hence, option A is the correct answer.

44. B

Sol. '137' means 'Mary went Jammu'

, '274' means 'I like Mary',

'893' means 'you went Goa'

3= went

7=mary

1=jammu

Either 8 or 9 may be code for Goa

But 8 is given in option

Hence, option B is the correct answer.

45. C

Sol.  $7 * 2 * 5 * 4 * 2 * 15$

This type of questions are solved by hit and trial method

Replace \* +, ×, −, ÷, =

$$7+2\times 5-4\div 2=15$$

Apply BODMAS

$$7+2\times 5-4\div 2=15$$

$$7+2\times 5-2=15$$

$$7+10-2=15$$

$$15-15$$

Hence, option C is the correct answer.

46. C

Sol. The possible arrangement of row houses as per the question is

O	Q	S	P	R	M	N
---	---	---	---	---	---	---

Hence, option C is the correct answer.

47. B

Sol. The logic here is that letters are coded as letters opposite to their positional value

SOLD= HLOW

Similarly, ROME= ILNV

Hence, option B is the correct answer.

48. C

Sol.  $3 \div 6 - 2 + 8 \times 4 = 18$

Replace  $\div$  and  $\times$

$3 \times 6 - 2 + 8 \div 4 = 18$

Apply BODMAS

$18-2+2=18$

$18=18$

Hence, option C is the correct answer.

49. A

Sol. The logic followed here is explained in the given below table

S-3=P	D-3=A
T+3=W	R+3=U
E-3=B	E-3-B
A+3=D	S+3=V
M-3=J	S+3=V

Hence, option A is the correct answer.

50. D

Sol. Kids who can dance but cannot sing = area of triangle which is not common to circle = area represented by e and f

Hence, option D is the correct answer.

51. C

Sol. Let the original expenditure of the mess, per day per student, be Rs. x.

Then, total original expenditure = Rs.  $1200x$ .

New expenditure of the mess, per day per student = Rs.  $(x - 5)$

Now, as per question,

New total expenditure after increase of students = Rs.  $(1200x + 5000)$

$$\Rightarrow (1200 + 300)(x - 5) = 1200x + 5000$$

$$\Rightarrow 1500x - 7500 = 1200x + 5000$$

$$\Rightarrow 1500x - 1200x = 5000 + 7500$$

$$\Rightarrow 300x = 12500$$

$$\Rightarrow x = 12500/300 = 125/3$$

Therefore, original expenditure of the mess, per day =  $1200 \times \frac{125}{3} = \text{Rs. } 50000$

Hence, option C is the correct answer.

52. A

Sol. Given:

Principal = Rs. 8000, Rate of Interest = 15% p.a.

Amount = Rs. 12167

$$\Rightarrow \text{Principal} \times (1 + R)^T = 12167$$

$$\Rightarrow 8000 \times (1 + 0.15)^T = 12167$$

$$\Rightarrow (1.15)^T = 12167/8000$$

$$\Rightarrow (1.15)^T = 1.520875$$

$$\Rightarrow (1.15)^T = (1.15)^3$$

$$\Rightarrow T = 3$$

Therefore, in 3 years, Rs. 8000 will become Rs. 12167 at 15% p.a.

Hence, option A is the correct answer.

53. B

Sol. Given:

Rs. 16000 is divided between Rahul and Vinod.

Rahul invested at 7.5% p.a. for 4 years at simple interest.

Vinod invested at 12% p.a. for 4 years at simple interest.

Let the sum invested by Rahul be Rs. x.

Then, sum invested by Vinod = Rs.  $(16000 - x)$

Now, as per question,

Total interest = Rs. 6024

$$\Rightarrow \text{Principal of Rahul} \times \text{Rate} \times \text{Time} + \text{Principal of Vinod} \times \text{Rate} \times \text{Time} = 6024$$

$$\Rightarrow (x) \times 7.5\% \times 4 + (16000 - x) \times 12\% \times 4 = 6024$$

$$\Rightarrow 0.30x + 7680 - 0.48x = 6024$$

$$\Rightarrow 0.18x = 7680 - 6024$$

$$\Rightarrow 0.18x = 1656$$

$$\Rightarrow x = 1656/0.18 = 9200$$

Therefore, sum invested by Rahul is Rs. 9200.

Hence, option B is the correct answer.

54. A

Sol. Let the number to be added be x.

Then, as per question,

$$\frac{7+x}{4+x} = \frac{4+x}{2+x}$$

$$\Rightarrow 14 + 9x + x^2 = 16 + 8x + x^2$$

$$\Rightarrow 9x - 8x = 16 - 14$$

$$\Rightarrow x = 2$$

Therefore, 2 must be added to each of the numbers 7, 4 and 2 so that the resulting numbers may be in a continued proportion.

Hence, option A is the correct answer.

55. B

Sol. Let the price of a pen be Rs. x and that of a pencil be Rs. x.

Then, in first case,

$$5x + 3y = 44 \dots (i)$$

And in second case,

$$3x + 5y = 36 \dots \text{(ii)}$$

By Eq. (i)  $\times 5$  – Eq. (ii)  $\times 3$ ,

$$25x + 15y - 9x - 15y = 220 - 108$$

$$\Rightarrow 16x = 112$$

$$\Rightarrow x = 7$$

Put value of x in Eq. (i)

$$\Rightarrow 5 \times 7 + 3y = 44$$

$$\Rightarrow 3y = 44 - 35$$

$$\Rightarrow y = 9/3 = 3$$

Required ratio

Price of a pen : Price of a pencil = 7 : 3

Hence, option B is the correct answer.

56. D

Sol. Yearly savings

$$= 12 \times (\text{Difference between expenditure on housing and expenditure on clothing} \times \frac{\text{Ratio of Savings}}{\text{Ratio of housing} - \text{Ratio of Clothing}})$$

$$= 12 \times (1680 \times \frac{10}{15 - 9}) = 12 \times (1680 \times \frac{10}{6}) = 12 \times 2800$$

$$= \text{Rs. } 33600$$

Hence, option D is the correct answer.

57. C

Sol. Percentage of food and education together =  $40\% + 20\% = 60\%$

$$\text{Central angle of food and education} = 360^\circ \times 60\% = 216^\circ$$

Hence, option C is the correct answer.

58. B

Sol. Given:

$$\text{Monthly savings} = \text{Rs. } 5000$$

Now, total expenditure on education and clothing

$$\begin{aligned} &= \text{Monthly savings} \times \frac{\text{Ratio of education} + \text{Ratio of Clothing}}{\text{Ratio of Savings}} \\ &= 5000 \times \frac{20 + 9}{10} \\ &= 5000 \times \frac{29}{10} \\ &= \text{Rs. } 14500 \end{aligned}$$

Hence, option B is the correct answer.

59. A

Sol. Given:

$$\text{Height of the cylindrical pillar} = 5.6 \text{ m}$$

$$\text{And diameter of pillar} = 75 \text{ cm or } 0.75 \text{ m}$$

$$\text{Radius of the pillar} = 0.75/2 = 0.375 \text{ m}$$

$$\text{Curved surface area of pillar} = 2\pi rh$$

$$= 2 \times \frac{22}{7} \times 0.375 \times 5.6$$

$$= 13.2 \text{ m}^2$$

Cost of painting of the curved surface of the pillar

$$= \text{Curved Surface Area of the pillar} \times \text{Rate per m}^2$$

$$= 13.2 \times 15 = \text{Rs. } 198$$

Hence, option A is the correct answer.

60. C

Sol. Given:

Ratio of the curved surface area and the volume of a closed cylinder = 4 : 7

$$\Rightarrow \frac{2\pi rh}{\pi r^2 h} = \frac{4}{7}$$

$$\Rightarrow \frac{2}{r} = \frac{4}{7}$$

$$\Rightarrow 4r = 14$$

$$\Rightarrow r = 14/4$$

$$\Rightarrow r = 7/2 \text{ cm}$$

Now, total surface area of cylinder = 253 cm<sup>2</sup> (given)

$$\Rightarrow 2\pi r(r + h) = 253$$

$$\Rightarrow 2 \times \frac{22}{7} \times \frac{7}{2} \left( \frac{7}{2} + h \right) = 253$$

$$\Rightarrow 22 \times \left( \frac{7}{2} + h \right) = 253$$

$$\Rightarrow \left( \frac{7}{2} + h \right) = \frac{253}{22}$$

$$\Rightarrow h = \frac{23}{2} - \frac{7}{2}$$

$$\Rightarrow h = \frac{23 - 7}{2}$$

$$\Rightarrow h = 16/2 = 8 \text{ cm}$$

Hence, option C is the answer.

61. A

Sol. Given:

Distance = 1300 m or 1.3 km and speed = 26 km/h

$$\text{Time taken to cover the distance} = \frac{\text{Distance}}{\text{Speed}}$$

$$= \frac{1.3}{26} = 0.05 \text{ h or } 0.05 \times 60 = 3 \text{ minutes}$$

Hence, option A is the correct answer.

62. D

Sol. Let the greater number be  $7x$ .

$$\text{Then, smaller number} = (7x) \times \frac{4}{7} = 4x$$

Now, we know that multiplication of HCF and LCM of two numbers is equal to multiplication of these numbers.

Therefore,

HCF  $\times$  LCM = Multiplication of numbers

$$\Rightarrow 8 \times 224 = (4x) \times (7x)$$

$$\Rightarrow 28x^2 = 1792$$

$$\Rightarrow x^2 = 1792/28$$

$$\Rightarrow x^2 = 64$$

$$\Rightarrow x = \sqrt{64} = 8$$

Therefore, greater number =  $7x = 7 \times 8 = 56$

Hence, option D is the correct answer.

63. A

Sol. Run rate for first 20 overs = 5.2 (given)

Therefore, runs scored in first 20 overs

$$= \text{Overs} \times \text{Run rate per over} = 20 \times 5.2 = 104$$

Runs required to be scored in next 30 overs

$$= \text{Target} - \text{Runs scored in first 30 overs} = 344 - 104 = 240$$

Required run rate = Runs required/Remaining overs

$$= 240/30 = 8 \text{ runs per over}$$

Hence, option A is the correct answer.

64. B

Sol. Let the marks scored by Renuka in English be  $4x$ .

Then, marks scored by her in Mathematics =  $(4x) \times 1.5 = 6x$

And marks scored by her in Science =  $(6x) \times \frac{3}{2} = 9x$

Total marks scored by her = 190 (given)

$$\Rightarrow 4x + 6x + 9x = 190$$

$$\Rightarrow 19x = 190$$

$$\Rightarrow x = 190/19 = 10$$

Therefore, marks scored by Renuka in Science =  $9x = 9 \times 10 = 90$

Hence, option B is the correct answer.

65. D

Sol. Given:

Profit earned after selling an article for Rs. 5,600 is the same as the loss incurred after selling the article for Rs. 2,400

Let the profit be Rs. x.

Then, in both cases, cost will be same,

$$5600 - \text{Profit} = 2400 + \text{Profit}$$

$$\Rightarrow 5600 - x = 2400 + x$$

$$\Rightarrow x + x = 5600 - 2400$$

$$\Rightarrow 2x = 3200$$

$$\Rightarrow x = 3200/2 = 1600$$

Therefore, the profit is Rs. 1600.

And cost =  $5600 - 1600 = \text{Rs. } 4000$

$$\text{Profit (in \%)} = \frac{1600}{4000} \times 100 = 40\%$$

Hence, option D is the correct answer.

66. B

Sol. Let one day earnings of a man be Rs. x and that of a woman be Rs. y.

Now, in first case – 4 men and 5 women can earn Rs. 8,800 in 8 days

$$8 \times 4 \times (x) + 8 \times 5 \times (y) = 8800$$

$$\Rightarrow 4x + 5y = 8800/8$$

$$\Rightarrow 4x + 5y = 1100 \dots (\text{i})$$

And in second case – 7 men and 10 women can earn Rs. 10,250 in 5 days

$$5 \times 7 \times (x) + 5 \times 10 \times (y) = 10250$$

$$\Rightarrow 7x + 10y = 10250/5$$

$$\Rightarrow 7x + 10y = 2050 \dots \text{(ii)}$$

By Eq. (i)  $\times 2 -$  Eq. (ii)

$$8x + 10y - 7x - 10y = 2200 - 2050$$

$$\Rightarrow x = 150$$

Put value of x in Eq. (i)

$$4 \times 150 + 5y = 1100$$

$$\Rightarrow 5y = 1100 - 600$$

$$\Rightarrow y = 500/5 = 100$$

Therefore, one day earning of 8 men and 12 women

$$= 8x + 12y = 8 \times 150 + 12 \times 100 = 1200 + 1200 = \text{Rs. } 2400$$

Time taken by 8 men and 12 women in earning Rs. 21600

$$= 21600/2400 = 9 \text{ days.}$$

Hence, option B is the correct answer.

67. D

Sol.

$$1\frac{1}{16} - \left( \frac{2}{5} \text{ of } \frac{5}{32} \right) - \frac{1}{3} \div \frac{3}{7} \text{ of } \frac{49}{50} + 2 - (4 \times 19) \div 63$$

$$= \frac{17}{16} - \left( \frac{1}{16} \right) - \frac{1}{3} \div \frac{21}{50} + 2 - (4 \times 19) \div 63$$

$$= \frac{17}{16} - \left( \frac{1}{16} \right) - \frac{1}{3} \times \frac{50}{21} + 2 - 76 \div 63$$

$$= \frac{17}{16} - \left( \frac{1}{16} \right) - \frac{50}{63} + 2 - \frac{76}{63}$$

$$\begin{aligned}&= \frac{17-1}{16} - \frac{50}{63} + 2 - \frac{76}{63} \\&= \frac{16}{16} - \frac{50}{63} + 2 - \frac{76}{63} \\&= 1 - \frac{50}{63} + 2 - \frac{76}{63} \\&= \frac{63 - 50 + 126 - 76}{63} = \frac{63}{63} \\&= 1\end{aligned}$$

Hence, option D is the correct answer.

68. C

Sol. Given:

Internal radius of a hollow hemispherical bowl ( $r_i$ ) = 20 cm

And external radius of the hollow hemispherical bowl ( $r_e$ ) = 23 cm

Now, total surface area of the bowl = External Curved surface area of bowl + Internal curved surface area of the bowl + Area of circular ring on top of bowl

$$\begin{aligned}&= 2\pi r_e^2 + 2\pi r_i^2 + \pi(r_e^2 - r_i^2) \\&= 2\pi(23)^2 + 2\pi(20)^2 + \pi(23^2 - 20^2) \\&= 2p(529 + 400) + p(529 - 400) \\&= 929 \times 2p + 129p \\&= 1858p + 129p \\&= 1987p\end{aligned}$$

Hence, option C is the correct answer.

69. B

Sol. Prime numbers between 20 and 45

23, 29, 31, 37, 41 and 43

$$\text{Now, mean of above numbers} = \frac{\text{Sum of numbers}}{\text{No of numbers}} = \frac{23 + 29 + 31 + 37 + 41 + 43}{6}$$

$$= \frac{204}{6} = 34$$

Hence, option B is the correct answer.

70. B

Sol. Let the cost price of the article be Rs.  $3x$ .

$$\text{Then, selling price} = (3x) \times \frac{4}{3} = \text{Rs. } 4x$$

$$\text{Now, profit percentage} = \frac{\text{Selling Price} - \text{Cost Price}}{\text{Cost Price}} \times 100$$

$$= \left( \frac{4x - 3x}{3x} \right) \times 100 = \left( \frac{x}{3x} \right) \times 100 = 33\frac{1}{3}\%$$

Hence, option B is the correct answer.

71. A

Sol. Given:

Diameter of a solid right circular cylinder = 21 cm

Radius of its base ( $r$ ) =  $21/2$  cm

And its Total surface area =  $1617 \text{ cm}^2$

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

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

$$\Rightarrow 22 \times 3 \left( \frac{21}{2} + h \right) = 1617$$

$$\Rightarrow \left( \frac{21}{2} + h \right) = \frac{1617}{22 \times 3}$$

$$\Rightarrow h = \frac{49}{2} - \frac{21}{2}$$

$$\Rightarrow h = \frac{49 - 21}{2}$$

$$\Rightarrow h = 14 \text{ cm}$$

Now, its volume =  $\pi r^2 h$

$$= \frac{22}{7} \times \left( \frac{21}{2} \right)^2 \times 14$$

$$= 4851 \text{ cm}^3$$

Hence, option A is the correct answer.

72. A

Sol. Let the total distance covered by him be  $4x$  km.

Then, as per question,

$$\Rightarrow \frac{(4x) \times \frac{3}{4}}{5} + \frac{(4x) - (4x) \times \frac{3}{4}}{6} = 5 + \frac{22}{60}$$

$$\Rightarrow \frac{3x}{5} + \frac{4x - 3x}{6} = 5 + \frac{11}{30}$$

$$\Rightarrow \frac{3x}{5} + \frac{x}{6} = \frac{150 + 11}{30}$$

$$\Rightarrow \frac{18x + 5x}{30} = \frac{161}{30}$$

$$\Rightarrow 23x = 161$$

$$\Rightarrow x = 161/23 = 7$$

Therefore, total distance covered by Dheeraj =  $4 \times 7 = 28$  km.

Hence, option A is the correct answer.

73. B

Sol. Let the total work be  $140x$  units.

Then, efficiency of A =  $140x/20 = 7x$  units/day

And efficiency of B =  $140x/14 = 10x$  units/day

Combined efficiency of A and B =  $7x + 10x = 17x$  units/day.

Work done by A and B together in 7 days =  $(17x) \times 7 = 119x$  units

Remaining work =  $140x - 119x = 21x$  units

Fraction of work left =  $\frac{21x}{140x} = \frac{3}{20}$

Hence, option B is the correct answer.

74. A

Sol. Let the monthly salary of Sonu Kumar be Rs.  $100x$ .

Then,

Expense on food =  $(100x) \times 42\% = \text{Rs. } 42x$ ,

Expense on rent =  $(100x) \times 16\% = \text{Rs. } 16x$

Expense on entertainment =  $(100x) \times 10\% = \text{Rs. } 10x$

Expense on transport =  $(100x) \times 7\% = \text{Rs. } 7x$

Savings of Sonu Kumar = Requirement – Loan taken

$$\Rightarrow 100x - 42x - 16x - 10x - 7x = 18000 - 12500$$

$$\Rightarrow 25x = 5500$$

$$\Rightarrow x = 5500/25 = 220$$

Therefore, monthly salary of Sonu Kumar

$$= 100x = 100 \times 220 = \text{Rs. } 22000.$$

Hence, option A is the correct answer.

75. D

Sol. Given:

Marked price of an article = Rs. 12500

Now, price after first discount =  $12500 - 12500 \times 14.5\%$

$$= 12500 - 1812.5 = \text{Rs. } 10687.5$$

Discount required to make price Rs. 9405 =  $10687.5 - 9405 = \text{Rs. } 1282.5$

$$\text{Required discount (in \%)} = \frac{1282.5}{10687.5} \times 100 = 12\%$$

Hence, option D is the correct answer.

76. B

Sol. • **Cheiraoba festival is also known as 'Manipuri Nav year'.**

- It is the Manipur New Year based on the solar calendar and It is observed on April 13th or 14th.
- It is a popular one that holds great significance in the hearts of the locals.
- It is celebrated to strengthen the relations or bonds of love and brotherhood among families, relatives and neighbours.
- Manipur is known for its eternal beauty, majestic hills, opulent greenery and pacific ambiance.
- **Heikru Hidongba** is the traditional boat race festival celebrated in Manipur.

77. B

- Sol.
- Tilaiya Ultra Mega Power Project is located in Jharkhand.
  - It is the third Ultra Mega Power Project in Reliance Power's power portfolio.
  - It is being developed by Jharkhand Integrated Power Limited which is a wholly-owned subsidiary of the company.
  - Ultra Mega Power Projects are a series of ambitious power stations planned by the Government of India.
  - Jharkhand is blessed with immense bio-diversity, moderate climate, rich cultural & historical heritage, religious places of worship and ethnicity.
  - It is one of the richest mineral zones in the world.

78. C

- Sol.
- Fakhruddin Ali Ahmed was the President of India when the National Emergency was declared in 1975.
  - He served as the 5th president of India from 1974 to 1977 and he was the second President of India to die in office.
  - Neelam Sanjiva Reddy served as the Sixth President of India, serving from 1977 to 1982.
  - Varahagiri Venkat Giri was the only president to be elected as an independent candidate.
  - Zakir Hussain is one of the best tabla players in the world and hailed as India's most famous percussion artist.

79. D

- Sol.
- Silicon dioxide has a high melting point.
  - It is the most common silicon compound and a major constituent of the Earth's crust.
  - It is a natural compound made of two of the earth's most abundant materials.
  - It is also known as Synthetic Amorphous Silica and It has the chemical formula  $\text{SiO}_2$ .

- It is used in the construction industry to produce concrete and It is also used in the production of glass.
- It is used to make ceramics, enamels, concrete and specialized silica bricks used as refractory materials.

80. A

Sol. • There are 3 natural isotopes of carbon.

- The three isotopes that occur naturally are

- a)  $^{12}\text{C}$
- b)  $^{13}\text{C}$
- c)  $^{14}\text{C}$

- Carbon is the 15th most abundant element in the Earth's crust.
- It is the fourth most abundant element in the universe by mass and the second most abundant element in the human body by mass.
- It is used for fuel in the form of coal, methane gas and crude oil.

81. B

Sol. • Vikramaditya VI, whose court poet Bilhan wrote his biography, was the ruler of the Chalukya dynasty.

- He ruled over South India and he finds a pride of place in Karnataka history.
- He is noted for his patronage of art and letters.
- He was the greatest of the Western Chalukya kings and had the longest reign in the dynasty.
- Chalukya dynasty was a Classical Indian dynasty that ruled large parts of southern and central India between the 6th and the 12th centuries.

- The **Rashtrakuta dynasty** is famous for its **long line of brave warriors** and **able administrators**.

82. C

- Sol.
- **A member of the Union Public Service Commission holds office for a term of six years or till he attains the age of 65 years according to the Constitution of India.**
  - **Union Public Service Commission is India's premier central recruiting agency for Group 'A' officers of the Government of India.**
  - It is a **constitutional body** and it **consists of a chairman** and ten members.
  - It is **responsible for conducting the examinations for appointments to the services of the Union.**
  - The **terms and conditions of service of the chairman & members of the Commission are governed by the Union Public Service Commission Regulations, 1969.**

83. A

- Sol.
- **Berkshire Hathaway** is a firm run by billionaire Warren Buffett.
  - It is an **American multinational conglomerate holding company headquartered in Omaha, Nebraska, United States.**
  - It is the **eighth-largest public company in the world.**
  - It is the **tenth-largest conglomerate by revenue** and the **largest financial services company by revenue in the world.**
  - **JPMorgan Chase** is the **largest bank in the United States as of September 30, 2021.**
  - **Bank of America** is the **second-largest banking institution in the United States.**

84. C

- Sol.
- **Virendra Kumar was the chairman of the Indian Parliamentary Group in August 2020.**
  - He was also chosen as the **Pro-tem speaker of the 17th Lok Sabha in June 2019.**
  - **Sumitra Mahajan** was the **eldest and seniormost among woman Members of Parliament in the 16th Lok Sabha.**

- She was awarded India's third highest civilian award the Padma Bhushan in 2021.
- Om Birla is the 17th and current Speaker of the Lok Sabha.
- M. Venkaiah Naidu is the current vice president of India and the chairman of Rajya Sabha on 11 August 2017.

85. D

- Sol.
- National Consumer Day is celebrated in India on 24 December.
  - It is observed annually to highlight the importance of the consumer movement.
  - It spread awareness about the rights and responsibilities of every consumer.
  - The National Consumer Day 2021 is being observed under the theme Tackling Plastic Pollution.
  - 26 November is celebrated in India as Constitution Day.
  - It is celebrated to commemorate the adoption of the Constitution of India.

86. B

- Sol.
- Iron Chromium Oxide is the scientific name of a mineral called Chromite.
  - Chromite is a crystalline mineral composed primarily of iron oxide and chromium oxide compounds.
  - It is iron-black in colour with a metallic lustre, a dark brown streak and a hardness on the Mohs scale of 5.5.
  - It can be represented by the chemical formula of  $\text{FeCr}_2\text{O}_4$  and it is an oxide mineral belonging to the spinel group.
  - It is an important mineral in helping to determine the conditions that rocks form.

87. D

- Sol.
- Qinchen is not one of the official mascot of the 2022 Asian Games – 'The Smart Triplets'.
  - The mascot was unveiled by the Olympic Council of Asia at a digital launch ceremony in Hangzhou, China.

- Congcong illustrates the **archaeological ruins of Liangzhu city**.
- Lianlian signifies a **lake full of lush lotus leaves**.
- Chenchen depicts the **Beijing-Hangzhou Grand Canal**.
- The **2022 Asian Games** will be a multi-sport event celebrated from **10 to 25 September 2022**.

88. C

Sol. ● **Polio is a disease not caused by a flavivirus.**

● It is an **infectious disease caused by the poliovirus**.

● **Yellow Fever, Dengue Fever, Japanese encephalitis, West Nile viruses and Zika virus** are diseases **caused by a flavivirus**.

● **Flavivirus** is a **genus of positive-strand RNA viruses in the family Flaviviridae**.

● **Yellow fever** is a **viral disease of typically short duration and spread by the bite of an infected mosquito**.

● **Dengue** is a **viral infection transmitted to humans through the bite of infected mosquitoes**.

89. C

Sol. ● **Indian-origin South African, Geeta Ramji, who breathed her last in March 2020, is known internationally for her contribution to Virology.**

● **Geeta Ramji** is the **first person of Indian origin to die due to coronavirus infection in South Africa**.

● He was a **Ugandan-South African scientist and researcher in HIV prevention**.

● **Virology** is the **scientific discipline concerned with the study of the biology of viruses and viral diseases**.

● **Nuclear physics** is an **area of science that studies the nuclei of atoms, their formation and stability**.

90. D

- Sol. • **Mahadev hills** are mainly spread in Madhya Pradesh.  
• They are **situated in the northern section of the Satpura Range**.  
• **Dhupgarh** is the **highest peak Mahadeo hills** and **Panchamarhi** is an **important hill station of this range**.  
• **Madhya Pradesh** is the **second-largest Indian state by area** and **the fifth largest state by population**.  
• It has the **largest reserves of diamond and copper in India**.  
• It is known as the **Heart of India** because of a lot many things that it has to offer.

91. D

- Sol. • **The Finance Commission of India** is constituted by President under Article 280 of the Constitution.  
• It is **constituted to define the financial relations between the central government of India and the individual state governments**.  
• It is constituted mainly to **give its recommendations on the distribution of tax revenues between the Union and the States**.  
• The president is the **nominal head of the executive as well as the commander-in-chief of the Indian Armed Forces**.  
• The Vice President of India is the **deputy to the head of state of India and second-highest constitutional office**.

92. D

- Sol. • **Rani Rudramadevi** related to the Kakatiyas dynasty.  
• She was **one of the very few women to rule as monarchs in India**.  
• **Kakatiya dynasty** was a **South Indian dynasty that ruled most of the eastern Deccan region**.  
• **Chola Dynasty** is **one of the longest-ruling dynasties in world history**.  
• **Vakatakas dynasty** was a **dynasty from the Indian subcontinent that originated from the Deccan in the mid-3rd century CE**.

- It was a **Brahmin dynasty** and VindhyaShakti was the founder of the Vakataka Dynasty.

93. A

- Sol.
- Revenue Income does not directly affect the current account balance of India.
  - The current account records the value of exports and imports of both goods & services and international transfers of capital.
  - It is one of the three components of its balance of payments.
  - It measures the nation's earnings & spendings abroad and It is one of two major measures of a country's foreign trade.
  - It is called the current account because goods and services are generally consumed in the current period.
  - is an important indicator of an economy's health.
  - It is defined as the sum of the balance of trade, net income from abroad and net current transfers.

94. A

- Sol.
- Nokrek Biosphere Reserve is located in Meghalaya.
  - The entire area of the biosphere reserve is mountainous and Nokrek is the highest peak of the Garo hills, rising up 1,412 metres.
  - This reserve contains major rivers and streams that form a perennial catchment system.
  - Meghalaya is mostly famous for its sandstone caves, clean villages, mesmerizing waterfalls and breathtaking hill stations.
  - It is also the home to a large variety of fruits, vegetables, spices and medicinal plants.
  - Arunachal Pradesh is the largest of the Seven Sister States of Northeast India by area.

95. D

- Sol.
- Munda is not a tribal group traditionally living in the Andaman and Nicobar Islands.
  - It is a well-spread tribe in the states of West Bengal, Chhattisgarh, Orissa and Bihar.

- The **complexion of Mundas** is **blackish** and they have **short curly hair**.
- **Sentinelese** are an **uncontacted tribe** living on **North Sentinel Island**, one of the **Andaman Islands in the Indian Ocean**.
- **Onge** is an **Andamanese ethnic group**, **indigenous to the Andaman Islands in Southeast Asia**.
- **Jarawa** is an **indigenous people living in parts of South Andaman and Middle Andaman Islands**.

96. D

- Sol.
- **The fifth state of matter is also known as Bose-Einstein condensate.**
  - **Bose-Einstein condensate** is a **state of matter** that is typically formed when a **gas of bosons** at **low densities** is cooled to **temperatures very close to absolute zero**.
  - It was **first predicted**, generally, in **1924–1925** by **Albert Einstein**.
  - The first "pure" **Bose-Einstein condensate** was created by **Eric Cornell, Carl Wieman** and **co-workers at JILA on 5 June 1995**.
  - A **state of matter** is one of the distinct forms in which matter can exist.
  - There are four states of matter that are observable in everyday life:
    - Solid**
    - Liquid**
    - Gas**
    - Plasma**

97. D

- Sol.
- **Keoladeo National Park** is inscribed in the **UNESCO (UNESCO) World Heritage List (Natural) as of September 2020**.
  - It is also known as **Keoladeo Ghana National Park** and It is **located in the State of Rajasthan**
  - It is an **important wintering ground of Palaearctic migratory waterfowl**.
  - It is **renowned for its large congregation of non-migratory resident breeding birds**.

- Hemis National Park is a high altitude national park in Ladakh.
- It is the largest notified protected area in India and is the second-largest contiguous protected area.

98. C

- Sol.
- Wimbledon Open is the oldest tennis tournament in the world.
  - It is widely regarded as the most prestigious and It is played on outdoor grass courts.
  - It is the only major still played on grass, which is the traditional tennis playing surface.
  - The US Open Tennis Championships is a hardcourt tennis tournament.
  - French Open is the premier clay court championship in the world and the only Grand Slam tournament currently held on this surface.
  - Australian Open has grown to become one of the biggest sporting events in the Southern Hemisphere.

99. A

- Sol.
- ARMMAN has won the Skoll Prize for Social Entrepreneurship 2020.
  - It is an India-based non-profit leveraging mHealth to create cost-effective, scalable, gender-sensitive, non-linear, systemic solutions to improve access of pregnant women and mothers to preventive information.
  - It adopts a “tech plus touch” approach by leveraging the health worker network of the government and partner NGOs.
  - It is currently implementing the largest mobile-based maternal messaging program and the largest mobile-based training program for frontline health workers.
  - Greenpeace is an independent global campaigning network.
  - Goonj is a non-governmental organisation headquartered in New Delhi, India.
  - It was founded in 1999 by Anshu Gupta.

100. A

- Sol.
- **Brahmo Samaj** was established earlier than the other three organizations during British rule.
  - It was one of the most influential religious movements in India and made a significant contribution to the making of modern India.
  - **Satyashodhak Samaj** was a social reform society founded by Jyotiba Phule in Pune, Maharashtra, on 24 September 1873.
  - **Paramahansa Mandali** was a secret socio-religious group and It was established in 1840.
  - **Prarthana Samaj** was a movement for religious and social reform in Bombay, India.

# Mock Test Solutions in Hindi

## Questions

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

## HEFTY

- |             |             |
|-------------|-------------|
| A. handsome | B. generous |
| C. slight   | D. liberal  |

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

## SMUDGE

- |          |          |
|----------|----------|
| A. stain | B. sweet |
| C. trash | D. mud   |

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

The quarantine period for travellers by road into this State has been \_\_\_\_\_ to 28 days.

- |             |              |
|-------------|--------------|
| A. advanced | B. increased |
| C. expanded | D. enlarged  |

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

The first people to live in an area

- |               |           |
|---------------|-----------|
| A. Provincial | B. Native |
| C. Colonial   | D. Local  |

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

Fit as a fiddle

- A. To be in excellent health and good working order      B. About to buy a good musical instrument  
C. Ready to start playing a fiddle                          D. To have an expensive musical instrument

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

After she received an overripe papaya, Vidya exclaimed that she would never ever \_\_\_\_\_ fruits online.

C. orders

D. Ordering

7. Select the MISSPELT word.

A. Eminent

B. Tolerance

C. Weary

D. Happiness

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

Elbow grease

A. Oil on the shirt sleeve

B. Too much cream on hands

C. Stain on a car glass

D. A lot of physical effort

9. 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'.

Keep pets can be very comforting for most people.

A. Keeping pet

B. Keeps pet

C. No substitution required

D. Keeping pets

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

According to the meteorology department, yesterday Assam had the heavier rainfall of the decade.

A. yesterday Assam had

B. the heavier rainfall of the decade

C. According to

D. the meteorology department

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

After the rain the roads was wet and waterlogged in some places.

A. After the rain

B. wet and waterlogged

C. in some places.

D. the roads was

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

The Minister's office \_\_\_\_\_ press statement that the Webinar which had been held on the previous day had received an excellent response.

A. have issue

B. issues

C. issued

D. will issued

13. 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'.

At first, we cruised in the local river beside trying anything more adventurous.

- A. already
- B. before
- C. No substitution required
- D. Earlier

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

There was very poor receptivity due from technological glitches; nonetheless, the online class was continued.

- A. There was very poor receptivity
- B. the online class was continued
- C. due from technological glitches
- D. Nonetheless

15. Select the most appropriate option to substitute the underlined segment. If no substitution is required, select 'No substitution required'.

The doctor asked the patient what he had ate the previous night.

- A. No substitution required
- B. had he eaten
- C. had he ate
- D. he had eaten

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

The patient's family had to go through a lot of trouble to \_\_\_\_\_ her into a hospital.

- A. join
- B. admit
- C. access
- D. Permit

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

PRIORITY

- A. dignity
- B. formality
- C. paucity
- D. Precedence

18. Select the MISSPELT spelt word.

- A. Business
- B. Dreadful
- C. Emergены
- D. Inflammable

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

Special words and phrases used by particular groups of people, especially in their work.

- A. Dialogue
- B. Elocution
- C. Conversation
- D. Jargon

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

FATIGUE

- A. strength
- B. control
- C. weakness
- D. Threat

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

Lin Piao used to absent himself (1) \_\_\_\_\_ classes very often and one day (2) \_\_\_\_\_ principal of the college made up his (3) \_\_\_\_\_ to expel him. So he sent for the (4) \_\_\_\_\_ man. Lin arrived just (5) \_\_\_\_\_ the principal was about to go for lunch. "Is this the time to come?" said the principal, sternly.

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

- A. from
- B. in
- C. for
- D. To

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

- A. a
- B. an
- C. some
- D. The

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

- A. brain
- B. thought
- C. mind
- D. Head

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

- A. immature
- B. young
- C. youthful
- D. Childish

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

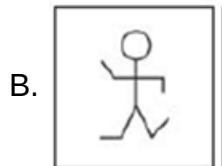
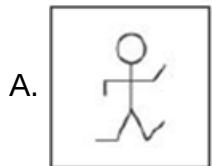
- A. also
- B. why
- C. how
- D. As

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

वर्ग : आयत :: समचतुर्भुज : ?

- A. घनाभ  
B. समलंब  
C. पतंग  
D. समानांतर चतुर्भुज

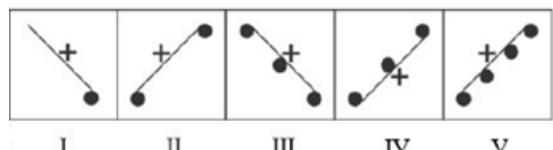
27. दी गई आकृति के सही दर्पण प्रतिबिम्ब का चयन करें जब दर्पण को आकृति के दार्थी ओर रखा जाए।



28. किलोग्राम 'सज्जियों' से उसी तरह संबंधित है जैसे 'लीटर' '\_\_\_\_\_ ' से संबंधित है।

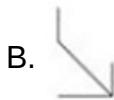
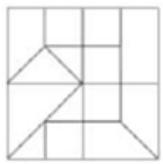
- A. केले  
B. दालें  
C. दूध  
D. घास

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



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

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



31. उस संख्या का चयन करें जो दी गई संख्या शृंखला में प्रश्न चिह्न (?) को प्रतिस्थापित कर सकती है।

121, 57, 21, 5, ?



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

कथनः

- 1) सभी बच्चे कक्षा V में पढ़ते हैं।
  - 2) कुछ बच्चे कोचिंग जाते हैं।
  - 3) कछ बच्चे मेधावी होते हैं।

ନିଷ୍ଠାର୍ଥ-

- I. कोचिंग में जाने वाले सभी बच्चे मेधावी होते हैं।
  - II. कोचिंग जाने वाले बच्चे कक्षा पांच में भी पढ़ते हैं।
  - III. कक्षा V में पढ़ने वाले सभी बच्चे मेधावी नहीं होते हैं।

B. निष्कर्ष ॥ और ॥ दोनों अनुसरण करते हैं ।

- C. केवल III अनुसरण करता है। D. केवल II अनुसरण करता है।

33. छह विद्यार्थी A, B, C, D, E और F उत्तर की ओर मुख करके खड़े हैं। वे वर्णानुक्रम में खड़े नहीं हैं। A एक कोने पर है और F उसके बगल में है। B, E के ठीक दायें हैं। B दायें छोर से दूसरे स्थान पर है। C, F के बगल में नहीं हैं। दायें छोर पर कौन खड़ा है?

A. A B. E  
C. D D. C

34. अक्षरों के उस संयोजन का चयन करें जिसे दी गई अक्षर श्रंखला के रिक्त स्थानों में क्रमिक रूप से रखने पर श्रंखला पूरी हो जाएगी।



- A. 

B. 

C. 

D. 

26, 37, 50, 65, ?, 101



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

कथनः

- 1) सुहानी एक खिलाड़ी हैं।
  - 2) कोई लड़का खिलाड़ी नहीं है।
  - 3) सभी लंबे व्यक्ति खिलाड़ी हैं।

निष्कर्षः-

- । सहानी लंबी व्यक्ति नहीं है ।

- II. लड़के लंबे व्यक्ति नहीं हैं।  
A. न तो निष्कर्ष। और न ही। अनुसरण करता है।  
C. निष्कर्ष। और। दोनों अनुसरण करते हैं।

- B. केवल निष्कर्ष ॥ अनुसरण करता है।  
D. केवल निष्कर्ष । अनुसरण करता है।

40. निम्नलिखित को तार्किक और सार्थक करम में व्यवस्थित करें। (उनकी ऊंचाई के बढ़ता करम)

- ## I. एफिल टॉवर

- ## ॥. एम्पायर स्टेट बिल्डिंग

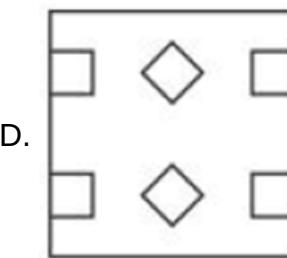
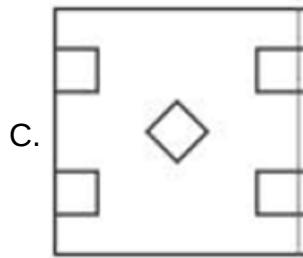
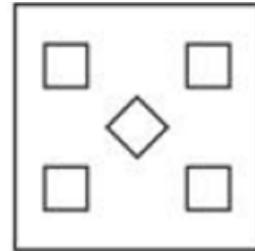
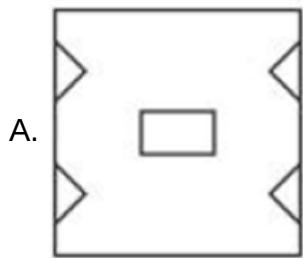
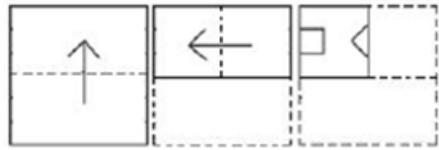
- ### III. कत्तव मीनार

- IV. बर्ज खलीफा

- B. I. IV. II. III

- D. I., II., III., IV.

41. एक कागज़ को पहले दो आकृतियों में दर्शाए अनुसार बिंदीदार रेखाओं पर मोड़ा जाता है और तीसरी आकृति में दर्शाए अनुसार काटा जाता है। खोले पर यह कैसे दिखाई देगा?



42. दिए गए विकल्पों में से संख्याओं के उस समुच्चय का चयन कीजिए जो दिए गए समुच्चय के समान नहीं है।

(12, 81, 15)

- |                 |                 |
|-----------------|-----------------|
| A. (11, 69, 12) | B. (15, 93, 16) |
| C. (13, 85, 17) | D. (8, 63, 13)  |

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

347 : 117

- |             |             |
|-------------|-------------|
| A. 242 : 82 | B. 165 : 56 |
| C. 265 : 88 | D. 135 : 48 |

44. एक निश्चित कूट भाषा में, '137' का अर्थ है 'Mary went Jammu', '274' का अर्थ है 'I like Mary', और '893' का अर्थ है 'you went Goa'. निम्नलिखित में से कौन-सा विकल्प 'Goa' का कूट हो सकता है?

- |      |      |
|------|------|
| A. 7 | B. 8 |
| C. 1 | D. 3 |

45. \*चिह्नों को क्रमानुसार बदलने तथा दिए गए समीकरण को संतुलित करने हेतु गणितीय चिह्नों के सही संयोजन का चयन करें।

$$7 * 2 * 5 * 4 * 2 * 15$$

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

46. एक परिसर में सात पंक्ति के घर, M, N, O, P, Q, R और S हैं। वे वर्णनुक्रम में स्थित नहीं हैं। P किसी भी छोर पर नहीं है। R, P के ठीक दायें हैं। S बायें से तीसरा है। O बाएं छोर पर है। M दायें से दूसरे स्थान पर है। O, N के पास नहीं है। Q कहाँ स्थित है?

- A. दायें से तीसरा      B. दाहिने छोर पर  
C. बाएं से दूसरा      D. दायें से चौथा

47. यदि किसी कूट भाषा में 'SOLD' को 'HLOW' लिखा जाता है, तो उसी कूट भाषा में 'ROME' को कैसे लिखा जाएगा?

- A. GLPK      B. ILNV  
C. ILHW      D. GLPV

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

$$3 \div 6 - 2 + 8 \times 4 = 18$$

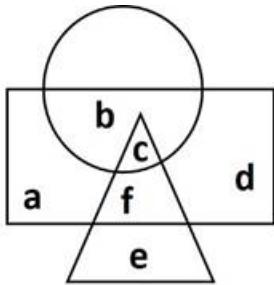
- A.  $\div$  और  $-$       B.  $+$  और  $\div$   
C.  $\div$  और  $\times$       D.  $+$  और  $-$

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

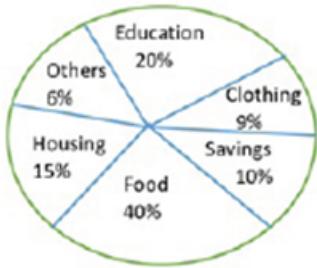
STEAM : PWBDJ :: DRESS : ?

- A. AUBVP      B. AOHVP  
C. AVBUP      D. AOBVV

50. दी गई आकृति में, वृत्त 'जो बच्चे गा सकते हैं' उनका प्रतिनिधित्व करता है, आयत 'जो बच्चे खेल सकते हैं' उनका प्रतिनिधित्व करता है, तथा तिरभुज 'जो बच्चे नृत्य कर सकते हैं' उनका प्रतिनिधित्व करता है। आकृति का कौन सा भाग 'उन बच्चों को दर्शाता है जो नाच सकते हैं' लेकिन गा नहीं सकते?



- |  |                  |
|--|------------------|
| A. e   | B. c             |
| C. f   | D. e और f        |
| एक छात्रावास में 1200 छात्र थे। यदि इन छात्रों की संख्या में 300 की वृद्धि कर दी जाती है, तो मेस के खर्च में 5,000 रुपये प्रति दिन की वृद्धि हो जाती है, जबकि प्रति व्यक्ति औसत खर्च 5 रुपये कम हो जाता है। तो इस मेस का प्रति दिन मूल व्यय ज्ञात करें?  |                  |
| A. 52, 000 रुपये   | B. 42, 000 रुपये |
| C. 50, 000 रुपये   | D. 55, 000 रुपये |
| कितने समय में 8,000 रुपये वार्षिक रूप से संयोजित होने पर, 15% प्रति वर्ष की दर से 12,167 रुपये हो जायेंगे?   |                  |
| A. 3 वर्ष  | B. 2 वर्ष        |
| C. 5 वर्ष  | D. 4 वर्ष        |
| 16,000 रुपये की राशि राहुल और विनोद के बीच विभाजित की जाती है। राहुल ने अपनी राशि को साधारण ब्याज पर 4 वर्षों के लिए 7.5% प्रति वर्ष की दर से निवेश किया और विनोद ने अपनी राशि को साधारण ब्याज पर 4 वर्षों के लिए 12% प्रति वर्ष की दर से निवेश किया। यदि राहुल और विनोद द्वारा प्राप्त कुल ब्याज 6.024 रुपये है, तो राहुल द्वारा निवेश की गई राशि ज्ञात करें? |                  |
| A. 8,200 रुपये   | B. 9,200 रुपये   |
| C. 8,400 रुपये   | D. 9,500 रुपये   |
| प्रत्येक संख्या 7, 4 और 2 में कौन सी संख्या जोड़ी जानी चाहिए ताकि परिणामी संख्याएं एक निरंतर अनुपात में हो सकें?   |                  |
| A. 2   | B. 4             |
| C. 3   | D. 5             |
| यदि कुछ पेन और पेंसिल 5: 3 के अनुपात में खरीदे जाते हैं, तो अशोक को 44 रुपये का भुगतान करना पड़ता है। यदि इस अनुपात को 3: 5 के रूप में बदल दिया जाता है, तो उसे 36 रुपये का भुगतान करना पड़ता है। तो एक पेन और एक पेंसिल की कीमत का अनुपात ज्ञात कीजिए?  |                  |
| A. 5 : 3   | B. 7 : 3         |
| C. 8 : 5   | D. 7 : 4         |
| <b>निर्देश:</b> दिया गया पाई चार्ट एक परिवार द्वारा विभिन्न मदों पर की गई मासिक बचत और व्यय को दर्शाता है। चार्ट का अध्ययन करें और नीचे दिए गए प्रश्न का उत्तर दें।  |                  |



यदि आवास पर व्यय कपड़ों की तुलना में 1,680 रुपये अधिक है, तो वार्षिक बचत ज्ञात करें?

- A. 34,600 रुपये      B. 32,500 रुपये  
 C. 33,500 रुपये      D. 33,600 रुपये

57. भोजन और शिक्षा का संयुक्त केंद्रीय कोण ज्ञात करें?

- A.  $218^{\circ}$       B.  $206^{\circ}$   
 C.  $216^{\circ}$       D.  $116^{\circ}$

58. यदि मासिक बचत 5000 रुपये है, तो शिक्षा और कपड़ों पर कुल व्यय ज्ञात करें?

- A. 16,500 रुपये      B. 14,500 रुपये  
 C. 15,500 रुपये      D. 14,000 रुपये

59. यदि एक बेलनाकार स्तंभ का व्यास 75 सेमी और ऊँचाई 5.6 मीटर है। तो 15 रुपये प्रति वर्ग मीटर की दर से इस स्तंभ के बकर पृष्ठ क्षेत्रफल को पेंट करने की लागत ज्ञात करें?

$$\left( \text{take } \pi = \frac{22}{7} \right)$$

- A. 198 रुपये      B. 195 रुपये  
 C. 180 रुपये      D. 188 रुपये

60. एक बंद बेलन के बकर पृष्ठीय क्षेत्रफल और आयतन का अनुपात 4:7 है। यदि इसका कुल पृष्ठीय क्षेत्रफल 253 वर्ग सेमी है, तो इसकी ऊँचाई ज्ञात करें।

$$\left( \text{take } \pi = \frac{22}{7} \right)$$

- A. 9 सेमी      B. 10 सेमी  
 C. 8 सेमी      D. 5 सेमी

61. यदि विश्वा 26 किमी/घंटा की गति से दौड़ता है, तो उसे 1300 मीटर की दूरी तय करने में कितने मिनट लगेंगे?

- A. 3 मिनट      B. 6 मिनट  
 C. 5 मिनट      D. 8 मिनट



C. 24

D. 32

70. यदि एक वस्तु को उसके क्रय मूल्य के  $\frac{4}{3}$  गुना पर बेचा गया। तो उसका लाभ प्रतिशत ज्ञात करें।

A.  $33\frac{1}{4}\%$ B.  $33\frac{1}{3}\%$ C.  $33\frac{1}{5}\%$ D.  $32\frac{1}{3}\%$ 

71. एक ठोस लम्ब वृत्तीय बेलन का कुल पृष्ठीय क्षेत्रफल  $1617 \text{ सेमी}^2$  है। यदि इसके आधार का व्यास  $21 \text{ सेमी}$  है, तो इसका आयतन ( $\text{सेमी}^3$  में) ज्ञात करें। ( $p = \frac{22}{7}$  लीजिय)

A. 4851

B. 5228

C. 5324

D. 3971

72. यदि धीरज 5 घंटे और 22 मिनट में एक निश्चित दूरी की तीन-चौथाई दूरी को 5 किमी/घंटा और शेष दूरी को 6 मीटर/घंटा की गति से तय करके इस निश्चित दूरी को तय कर सकता है। तो उसके द्वारा तय की गई कुल दूरी ज्ञात कीजिए?

A. 28 किमी

B. 30 किमी

C. 25 किमी

D. 26 किमी

73. A एक काम को 20 दिनों में कर सकता है और B उसे 14 दिनों में कर सकता है। यदि वे 7 दिनों के लिए एक साथ कार्य करते हैं, तो शेष कार्य भिन्न में ज्ञात करें?

A.  $\frac{3}{10}$ B.  $\frac{3}{20}$ C.  $\frac{7}{20}$ D.  $\frac{7}{10}$ 

74. सोनू कुमार अपने मासिक वेतन का 42% भोजन पर, 16% किराए पर, 10% मनोरंजन पर और 7% परिवहन पर खर्च करता है। लेकिन एक पारिवारिक कार्यक्रम के कारण 18000 रुपये की आवश्यकता को पूरा करने के लिए उसे एक साहूकार से 12,500 रुपये का ऋण लेना पड़ता है। तो उसका मासिक वेतन ज्ञात कीजिए।

A. 22,000 रुपये

B. 24,000 रुपये

C. 20,000 रुपये

D. 25,000 रुपये

75. 12,500 रुपये के अंकित मूल्य वाली एक वस्तु पर दो क्रमागत छूटें दी गईं, यदि पहली  $14\frac{1}{2}\%$  थी। और अंत में, इसे 9,405 रुपये में बेचा गया। तो दूसरी छूट कितनी थी?

A. 10%

B. 9%

C. 8%

D. 12%

76. निम्नलिखित में से किस त्योहार को 'मणिपुरी नव वर्ष' के नाम से भी जाना जाता है?

A. गंग-नागी

B. चेराओबा

C. कूट

D. हेकरु हिडोंगबा



87. निम्नलिखित में से कौन 2022 एशियाई खेलों - 'द स्मार्ट ट्रिपल्स' के आधिकारिक शुभंकर में से एक नहीं है?  
A. चेन्चेन B. लियानलियान  
C. कांगकांग D. किनचेन

88. निम्नलिखित में से कौन सा रोग फ्लेविवायरस के कारण नहीं होता है?  
A. जापानी इंसेफलाइटिस B. पीत ज्वर  
C. पोलियो D. डेंगू

89. भारतीय मूल की दक्षिण अफ्रीकी गीता रामजी, जिन्होंने मार्च 2020 में अंतिम सांस ली, को किस क्षेत्र में उनके योगदान के लिए अंतर्राष्ट्रीय स्तर पर जाना जाता है?  
A. विकासात्मक अर्थशास्त्र B. परमाणु भौतिकी  
C. विषाणु विज्ञान D. अंतरिक्ष

90. महादेव पहाड़ियाँ मुख्यतः किस राज्य में फैली हुई हैं?  
A. उत्तर प्रदेश B. छत्तीसगढ़  
C. झारखण्ड D. मध्य प्रदेश

91. संविधान के अनुच्छेद 280 के तहत, भारत के वित्त आयोग का गठन \_\_\_\_\_ द्वारा किया जाता है।  
A. उप राष्ट्रपति B. उच्च न्यायालय  
C. सर्वोच्च न्यायालय D. राष्ट्रपति

92. रानी रुद्रमादेवी का संबंध निम्नलिखित में से किस राजवंश से था?  
A. चोल B. वाकाटक  
C. पश्चिम गंग D. काकतीय

93. निम्नलिखित में से कौन भारत के चालू खाता शेष को प्रत्यक्ष रूप से प्रभावित नहीं करता है?  
A. राजस्व आय B. विदेशों में शुद्ध आय  
C. विदेशी सहायता D. व्यापार अंतर

94. नोकरेक बायोस्फीयर रिजर्व किस राज्य में स्थित है?  
A. मेघालय B. नागालैंड  
C. अरुणाचल प्रदेश D. सिक्किम

95. निम्न में से कौन अंडमान और निकोबार द्वीप समूह में पारंपरिक रूप से रहने वाला आदिवासी समूह नहीं है?  
A. सेंटीनेलीस B. ओनो  
C. जरावा D. मुंडा

96. पदार्थ की निम्नलिखित में से किस अवस्था को बोस-आइस्टीन कंडेनसेट के नाम से भी जाना जाता है?  
A. चौथी B. तीसरी  
C. दसरी D. पांचवी

97. सितंबर 2020 तक, निम्नलिखित में से कौन सा राष्ट्रीय उद्यान यूनेस्को (यूनेस्को) की विश्व विरासत सूची (प्राकृतिक) में अंकित है?

A. दाचीगाम राष्ट्रीय उद्यान B. गिर राष्ट्रीय उद्यान

C. हेमिस राष्ट्रीय उद्यान D. केवलादेव राष्ट्रीय उद्यान

98. निम्नलिखित में से कौन सा विश्व का सबसे पुराना टेनिस टूर्नामेंट है?

A. फरेंच ओपन B. यूएस ओपन

C. विंबलडन D. ऑस्ट्रेलियन ओपन

99. निम्नलिखित में से किस स्वयंसेवी संगठन ने सामाजिक उद्यमिता 2020 के लिए स्कोल पुरस्कार जीता है?

A. कराई (CRY) B. अरमान (ARMMAN)

C. ग्रीनपीस D. गूंज

100. निम्नलिखित में से कौन सा संगठन ब्रिटिश शासन के दौरान अन्य तीन संगठनों की तुलना में पहले स्थापित किया गया था?

A. ब्रह्म समाज B. प्रार्थना

C. परमहंस मंडली D. सत्यशोधक समाज

### Solutions

1. C

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

Hefty = (of an amount of money) large; larger than usual or expected.

E.g.: They sold it easily and made a **hefty** profit.

Handsome = attractive

Generous = giving or willing to give freely; given freely

Slight = very small in degree

E.g.: There has been a **slight** delay, but we will be landing in just a few minutes.

Liberal = willing to understand and respect other people's behaviour, opinions etc.

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

2. A

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

Smudge= a dirty mark with no clear shape.

E.g.: He had dark **smudges** under his eyes from too many sleepless nights.

Stain = a dirty mark on something, that is difficult to remove

E.g.: How can I get this **stain** out?

Sweet = containing or tasting as if it contains, a lot of sugar

Trash = things that you throw away because you no longer want or need them.

Mud = wet earth that is soft and sticky.

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

3. B

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

- \* Advanced = something that develops and improves.
- \* Increased = to become greater in amount, number, value etc.
- \* Expanded = to become greater in size, number or importance.
- \* Enlarged = to make something bigger.

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

- \* "Advanced" is used in context of "development and improvement". Thus, option A is incorrect.
- \* "Enlarged" is used in context of "zooming into something". Thus, option D is incorrect.

\* "Expanded" focuses on becoming or making something bigger. Thus, it is incorrect in the given context.

\* "Increased" is used only for quantifying purpose i.e. it focus only on numeral value. Here in the given sentence, it is used to mention that the duration of quarantine period was scaled to 28 days.

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

Thus, the correct sentence will be:

**The quarantine period for travellers by road into this State has been increased to 28 days.**

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

4. B

Sol. Provincial: connected with one of the large areas that some countries are divided into, with its own local government.

Native: connected with the people who originally lived in a country before other people, especially white people, came there.

Colonial: connected with or belonging to a country that controls another country.

Local: belonging or connected with the particular place or area that you are talking about.

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

5. A

Sol. The idiom "**Fit as a fiddle**" means in a very good physical condition.

Example: He looks **as fit as fiddle** even at the end of day.

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

6. A

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

- \* Order = is the base form of verb. It means to ask for goods to be made or supplied; to ask for a service to be provided.
- \* Ordered = is the third form of verb “order”.
- \* Orders = is the singular form of verb “order”.
- \* Ordering = is the continuous form of verb “order”

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

- \* “Ordered” is the third form of verb “order”. Thus, option B is incorrect.
- \* “Orders” is the singular form of verb “order” but we need base form of verb without “s/es” after the modal verb “would”. Thus, option C is incorrect.
- \* “Ordering” is the continuous form of verb “order”. Thus, option D is incorrect.
- \* “Order” is a verb form without “s/es” in the end. It can be used after the modal verb “would”. It means asking for goods to be supplied. Here in the given sentence, it is used in context of asking fruits (goods) via online.

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

Thus, the correct sentence will be:

After she received an overripe papaya, Vidya exclaimed that she would never ever order fruits online.

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

7. B

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

“Tolerance” is the correct spelling of the incorrect word “Tolarance”. It means the quality of being willing to accept or tolerate.

The meaning of other words are:

Eminent: famous and respected, especially in a particular profession.

Weary: very tired.

Happiness: the state of feeling or showing pleasure.

8. D

Sol. The idiom “**Elbow grease**” means the effort used in physical work, especially in cleaning or polishing something.

Example: Using the right tool can save a lot of **elbow grease**.

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

9. D

Sol.

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

- \* The underlined part needs correction in verb.
- \* Sometimes a gerund clause is used as a subject.

**For example:**

**Keeping a copy of your letters** is a good idea.

Here, “keeping a copy of your letters” is a gerund clause used as a subject. “A good idea” is a subject complement.

- \* In the underlined sentence, we have erroneously used the first form of the verb as the subject.

- \* Here, a gerund clause should be the subject because the subject complement “very comforting” is used for the entire clause. Thus, gerund form “Keeping” should be used in place of “Keep”.
- \* Also, the noun “pet” is a countable noun. If we were to use “pet” here, we would use the indefinite article “a” before it. But no such option is available.
- \* Hence, “**Keeping pets**” is the correct substitution.

Thus, the correct sentence will be:

**Keeping pets can be very comforting for most people.**

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

10. B

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

\* “Heavy” is an adjective (positive degree) and it means worse than usual. Its comparative degree is “Heavier” and superlative degree is “Heaviest”.

For example:

His unit came under **heavy** fire from insurgents.

The ball in futsal is smaller and **heavier** than a regular football.

Osmium is one of the **heaviest** materials on earth.

\* In the given sentence, we have used the comparative degree of adjective “heavier” which is wrong.

\* Here, the sentence is depicting a superlative sense (see the use of “of the decade”).

- \* Thus, we need an adjective in the superlative degree i.e. “heaviest” in place of comparative degree “heavier”.
- \* Hence, “**the heaviest rainfall of the decade**” is the correct substitution.

Thus, the correct sentence will be:

**According to the meteorology department, yesterday Assam had the heaviest rainfall of the decade.**

11. D

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

- \* As per the Subject Verb agreement, the verb should be in accordance with the subject. A singular verb should be used with a singular subject whereas a plural verb should be used with a plural subject.

**For example:**

The **roads** are choked up with traffic.

- \* In the given sentence, we have erroneously used the singular verb “was” for the plural subject “roads”. Thus, the plural verb “were” should be used in place of “was”.

- \* Hence, “**the roads were**” is the correct substitution.

Thus, the correct sentence will be:

**After the rain the roads were wet and waterlogged in some places.**

12. C

Sol.

Let us understand the meaning of the given words:-

- \* Have issue = is incorrect verb structure of the present perfect tense.
- \* Issues = is a first form of verb used in the present tense.
- \* Issued = is a second form of verb used in the past tense.
- \* Will issued = is an incorrect verb structure of the simple future tense.

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

- \* "Issues" is a first form of verb used in present tense, but we need a verb that is used in past tense. Thus, option B is incorrect.
- \* "Issued" is a second form of verb used in the past tense. The given sentence is set in the past tense and is evident from the usage of the time word "previous day".
- \* Here in the given sentence, the verb "issued" is used to show that through its press statement "Minister's office" formally stated that it had received an excellent response in the Webinar.

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

Thus, the correct sentence will be:

**The Minister's office issued press statement that the Webinar which had been held on the previous day had received an excellent response.**

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

13. B

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

- \* The underlined part needs correction in conjunction.
- \* “Before” as a conjunction is used to show “earlier than the time when”

**For example:**

**Before** I made a decision, I thought carefully about it.

- \* “Already” as an adverb is used to emphasise that a situation or problem exists.

**For example:**

You are not leaving **already**, are you?

- \* “Beside” as a preposition is used to show “next to or at the side of someone/something”.

**For example:**

He sat **beside** her all night.

- \* In the underlined sentence, we need a word that shows the occurrence of action “cruise” earlier than “moving onto more adventurous things”. Thus, conjunction “before” should be used in place of “beside”.

- \* Hence, “**before**” is the correct substitution.

Thus, the correct sentence will be:

**At first, we cruised in the local river before trying anything more adventurous.**

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

14. C

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

\* “Due to something/someone” is the correct usage. It means caused by someone/something; because of someone/something.

**For example:**

The team's success was largely **due to** her efforts.

\* In the given sentence, we have erroneously used preposition “from” after adjective “due”. This is because the meaning of the phrase “due to something” is in consonance with the meaning of the sentence i.e. “poor receptivity” was caused by “technological glitches”. Thus, preposition “to” should be used.

\* Hence, “**due to technological glitches**” is the correct substitution.

Thus, the correct sentence will be:

**There was very poor receptivity due to technological glitches; nonetheless, the online class was continued.**

15. D

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

\* The underlined part needs correction in tense.

\* The past perfect tense has verb structure like: “Had + third form of verb”

**For example:**

He vomited up all that he **had eaten** for lunch.

\* In the underlined sentence, we have used the second form of the verb (ate) after the helping “had”. This is wrong because the third form of verb should be used. Thus, the third form of verb “eaten” should be used in place of the second form of the verb “ate”.

\* Hence, “**he had eaten**” is the correct substitution.

Thus, the correct sentence will be:

**The doctor asked the patient what he had eaten the previous night.**

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

16. B

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

- \* Join = to fix or connect two or more things together
- \* Admit = to allow someone/something to enter a place.
- \* Access = to be able to have or use something especially something that you have a right to.
- \* Permit = to allow someone to do something or to allow something to happen.

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

- \* "Join" is used in context of "connect or fix thiings". Thus, option A is incorrect.
- \* "Access" is used in context of "able to use something with your rights". Thus, option C is incorrect.
- \* "Permit" is used in context of "allowing something". Thus, option D is incorrect.
- \* "Admit" is used in context of "allow someone enter into a place". In context of hospitals, it means to take patients for their special care. Here in the given sentence, it is used to mention that family of patient struggled to get her into hospital for special care.

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

Thus, the correct sentence will be:

**The patient's family had to go through a lot of trouble to admit her into a hospital.**

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

17. D

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

Priority= something that you think is more important than other things and should be dealt with first.

E.g.: Our first **priority** is to improve standards of education in our state.

Dignity = a calm and serious manner that deserves respect.

Formality = a thing that you must do as a formal or official part of a legal process, a social situation etc.

Paucity = a small amount of something; less than enough of something.

Precedence = the condition of being more important than someone else and therefore coming or being dealt with first.

E.g.: Environmental concerns must be given **precedence** over commercial interests.

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

18. C

Sol.

**Option C has incorrectly spelt word.**

“Emergency” is the correct spelling of the incorrect word “Emergensy”. It means a sudden serious and dangerous event or situation that needs immediate action to deal with it.

The meaning of other words are:

Business: the activity of making, buying, selling or supplying goods or services for money.

Dreadful: very bad or unpleasant.

Inflammable: something that can burn easily.

19. D

Sol. Dialogue: a conversation in a book, play or film or in language teaching materials.

Elocution: the ability to speak clearly and correctly, especially in public and pronouncing the words in a way that is considered to be socially acceptable.

Conversation: an informal talk involving a small group of people or only two

Jargon: words or expressions that are used by a particular profession or group of people, and are difficult for others to understand.

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

20. A

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

Fatigue= a feeling of being extremely tired, usually because of hard work or exercise.

E.g.: I was dropping with **fatigue** and could not keep my eyes open.

Strength = the quality of being physically strong.

E.g.: He pushed against the rock with all his **strength**.

Control = the power to make decisions about how a country, an area, an organisation etc. is run

Weakness = lack of physical strength.

Threat = a statement in which you tell someone that you will punish or harm them.

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

21. A

Sol. The given passage is about "**Absenteeism of Lin Piao at college**".

"In" as a preposition is used to show "at a point within an area". Thus, option B is wrong.

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

"To" as a preposition is used for "towards something". Thus, option D is wrong.

"From" as a preposition is used to show what the origin of something/someone is. Here in the given sentence, it is used to show the origin (place) of Lin Piao's absence i.e. "classes".

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

22. D

Sol. The given passage is about "**Absenteeism of Lin Piao at college**".

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

"An" as an indefinite article is used before the countable nouns (having vowel sounds) that have not been mentioned before. Thus, option B is wrong.

“Some” as a determiner is used with uncountable nouns or plural countable nouns to mean “an amount of” or “a number of” when the amount is not given. Thus, option C is wrong.

“The” as a definite article is used before the “job titles”. Also, here “principal” is made specific by connecting it with the “college” and we use definite article before the nouns that are specific.

**Note:** Before the “job titles” we use either no article or “the”.

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

23. C

Sol. The given passage is about **“Absenteeism of Lin Piao at college”**.

“Brain” means the organ inside the head that control movement, thought, memory and feeling. Thus, option A is wrong.

“Thought” means something that you think of or remember. Thus, option B is wrong.

“Head” means the part of the body on top of the neck containing the eyes, nose, mouth and brain. Thus, option D is wrong.

“Make up your mind” is an idiom. It means to decide something. Here in the given sentence, it is used to mention the decision of “expelling” Lin Piao made by the principal.

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

24. B

Sol. The given passage is about **“Absenteeism of Lin Piao at college”**.

“Immature” means behaving in a way that is not sensible and is typical of people who are much younger. Thus, option A is wrong.

“Youthful” is an adjective and it means typical of young people. Thus, option C is wrong.

“Childish” is an adjective and it means connected with or typical of a child. Thus, option D is wrong.

“Young” is a noun and it means not yet old; not as old as others.

The phrase “call for” means to go to get someone or something. Here in the given sentence, the principle asked someone to get “Lin Piao” to his office. And “young man” has been used for the boy “Lin Piao”.

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

25. D

Sol. The given passage is about “**Absenteeism of Lin Piao at college**”.

“Also” as an adverb to show “in addition; too”. Thus, option A is wrong.

“Why” as an adverb is used in questions to ask the reason for or purpose of something. Thus, option B is wrong.

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

“As” as a conjunction is used to show while something else is happening. Here in the given sentence, it is used to mention the “arrival” of Lin while principal was about to “go” for his lunch.

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

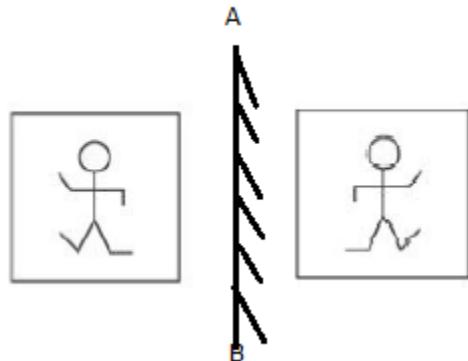
26. D

Sol. वर्ग एक विशेष प्रकार का आयत है, इसी प्रकार समचतुर्भुज एक विशेष प्रकार का समानांतर चतुर्भुज है।

अतः विकल्प D सही उत्तर है।

27. A

Sol. दी गई आकृति का दर्पण प्रतिबिम्ब नीचे दिखाया गया है।



अतः विकल्प A सही उत्तर है।

28. C

Sol. सब्जियों को मापने के लिए किलोग्राम का उपयोग किया जाता है इसी तरह दूध को मापने के लिए लीटर का उपयोग किया जाता है

अतः विकल्प C सही उत्तर है।

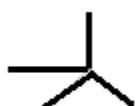
29. D

Sol. अगली आकृति में बैक डॉट्स की संख्या एक से बढ़ रही है, लेकिन IV आकृति में यह चार के बजाय केवल तीन ब्लैक डॉट्स हैं।

अतः विकल्प D सही उत्तर है।

30. D

Sol. वह आकृति जो दी गई आकृति में अंतर्निहित नहीं है -



अतः विकल्प D सही उत्तर है।

31. C

Sol.  $121-82=57$

$57-62=21$

$21-42=5$

5-22=1

अतः विकल्प C सही उत्तर है।

32. D

Sol. निष्कर्ष:

I. कोचिंग में जाने वाले सभी बच्चे मेधावी = असत्य हैं, कुछ बच्चे मेधावी होते हैं लेकिन ऐसा नहीं दिया गया है कि कोचिंग में जाने वाले बच्चे मेधावी होते हैं।

II. कोचिंग जाने वाले बच्चे कक्षा V में भी पढ़ते हैं- सत्य है क्योंकि यह दिया गया है कि सभी छात्र कक्षा V में पढ़ते हैं, और कुछ बच्चे कोचिंग में जाते हैं, इसलिए यह सत्य है कि जो बच्चे कोचिंग में जाते हैं वे कक्षा V में भी पढ़ते हैं।

III. कक्षा V में पढ़ने वाले सभी बच्चे मेधावी- असत्य है, क्योंकि यह दिया गया है कि कुछ बच्चे मेधावी होते हैं और सभी बच्चे कक्षा V में पढ़ते हैं।

अतः विकल्प D सही उत्तर है।

33. D

Sol. निर्देश के अनुसार छात्रों की व्यवस्था है

A	F	D	E	B	C
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अतः विकल्प B सही उत्तर है।

34. A

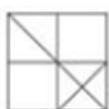
Sol. इस अक्षर शृंखला पैटर्न में CKZU दोहरा रहा है

CKZU/CKZU/CKZU/C

इस अक्षर शृंखला पैटर्न में CKZU दोहरा रहा है

35. D

Sol. नीचे दी गई आकृति दिए गए पैटर्न को पूरा करेगी।



अतः विकल्प D सही उत्तर है।

36. B

Sol. '137' का अर्थ है 'who are you'

'274' का अर्थ है 'we are girls'

'893' का अर्थ है 'you have toys'

7= girls

3= you

1= who

अतः विकल्प B सही उत्तर है।

37. A

Sol.

R+2=T	S+2=U
O+4=S	O+4=S
S+6=Y	M+6=S
E+8=M	E+8=M

अतः विकल्प A सही उत्तर है।

38. B

Sol.  $26+11=37$

$37+13=50$

$50+15=65$

$65+17=82$

$82+19=101$

अतः विकल्प B सही है।

39. B

Sol. निष्कर्ष:

I. सुहानी एक लंबी व्यक्ति नहीं है - असत्य है क्योंकि यह दिया गया है कि सुहानी एक खिलाड़ी है तथा सभी लंबे व्यक्ति खिलाड़ी हैं, इसलिए यह निष्कर्ष निकाला जा सकता है कि सुहानी एक लंबी व्यक्ति है।

II. लड़के लंबे व्यक्ति नहीं हैं - सत्य है क्योंकि कोई भी लड़का खिलाड़ी नहीं है तथा सभी लंबे व्यक्ति खिलाड़ी हैं, इसलिए यह निष्कर्ष निकाला जा सकता है कि लड़के लंबे व्यक्ति नहीं हैं।

अतः विकल्प B सही उत्तर है।

40. C

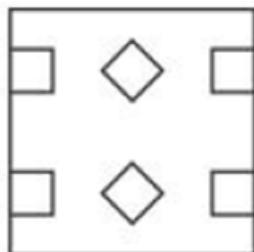
Sol. ये दिए गए भवन बढ़ते ऊँचाई क्रम में व्यवस्थित हैं

कुतुब मीनार<एम्पायर स्टेट बिल्डिंग<एफिल टावर< बुर्ज खलीफा

अतः विकल्प C सही उत्तर है।

41. D

Sol. जब कागज को मोड़ा जाता है और फिर प्रश्नों में दिए गए निर्देश के अनुसार काट दिया जाता है, तो कागज को खोलने के बाद बनने वाला पैटर्न नीचे दिया गया है।



अतः विकल्प C सही उत्तर है।

42. C

Sol. यहाँ तर्क मध्य संख्या है = (पहली संख्या + अंतिम संख्या) \* 3

$$(12, 81, 15) = 12+15)*3=81$$

$$(15, 93, 16) = (15+16)*3=93$$

$$(8, 63, 13) = (8+13)=3=63$$

$$(13, 85, 17) = (13+17)*3=90$$
 के बराबर नहीं

अतः विकल्प C सही उत्तर है।

43. A

Sol. 347 : 117

$$117 \times 3 - 4 = 351 - 4 = 347$$

इसी प्रकार, 242 : 82 में

$$82 \times 3 - 4 = 246 - 4 = 242$$

अतः विकल्प A सही उत्तर है।

44. B

Sol. '137' का अर्थ है 'Mary went Jammu',

'274' का अर्थ है 'I like Mary',

'893' का अर्थ है 'you went Goa'

3= went

7=mary

1=jammu

Goa के लिए या तो 8 या 9 कूट हो सकते हैं

लेकिन विकल्प में 8 दिया गया है

अतः विकल्प B सही उत्तर है।

45. C

Sol.  $7 * 2 * 5 * 4 * 2 * 15$

इस प्रकार के प्रश्नों को हिट एंड ट्रायल विधि द्वारा हल किया जाता है

\* +, ×, −, ÷, = को बदलें

$$7+2\times 5-4\div 2=15$$

BODMAS लागू करें

$$7+2\times 5-4\div 2=15$$

$$7+2\times 5-2=15$$

$$7+10-2=15$$

$$15-15$$

अतः विकल्प C सही उत्तर है।

46. C

Sol. प्रश्न के अनुसार पंक्ति घरों की संभावित व्यवस्था है

O	Q	S	P	R	M	N
---	---	---	---	---	---	---

अतः विकल्प C सही उत्तर है।

47. B

Sol. यहाँ तर्क यह है कि अक्षरों को उनके स्थितीय मान के विपरीत अक्षरों के रूप में कोडित किया जाता है

SOLD= HLOW

इसी तरह, ROME= ILNV

अतः विकल्प B सही उत्तर है।

48. C

Sol.  $3 \div 6 - 2 + 8 \times 4 = 18$

$\div$  और  $\times$  को बदलें

$$3 \times 6 - 2 + 8 \div 4 = 18$$

BODMAS लागू करें

$$18-2+2=18$$

$$18=18$$

अतः विकल्प C सही उत्तर है।

49. A

Sol. यहां दिए गए तर्क को नीचे दी गई तालिका में समझाया गया है

S-3=P	D-3=A
T+3=W	R+3=U
E-3=B	E-3-B
A+3=D	S+3=V
M-3=J	S+3=V

अतः विकल्प A सही उत्तर है।

50. D

Sol. जो बच्चे नाच सकते हैं लेकिन गा नहीं सकते = तिरभुज का क्षेत्रफल जो वृत्त के लिए सामान्य नहीं है = ऐसा क्षेत्र जिसे e और f द्वारा दर्शाया गया है।

अतः विकल्प D सही उत्तर है।

51. C

Sol. माना मेस का मूल व्यय, प्रति छात्र प्रति दिन, x रुपये

तो, कुल मूल व्यय =  $1200x$  रुपये।

मेस का नया खर्च, प्रति छात्र प्रति दिन =  $(x - 5)$  रुपये

अब, प्रश्न के अनुसार,

छात्रों की वृद्धि के बाद नया कुल व्यय =  $(1200x + 5000)$  रुपये

$$\Rightarrow (1200 + 300)(x - 5) = 1200x + 5000$$

$$\Rightarrow 1500x - 7500 = 1200x + 5000$$

$$\Rightarrow 1500x - 1200x = 5000 + 7500$$

$$\Rightarrow 300x = 12500$$

$$\Rightarrow x = 12500/300 = 125/3$$

$$\text{अतः मेस का मूल व्यय, प्रतिदिन} = 1200 \times \frac{125}{3} = 50000 \text{ रुपये}$$

अतः विकल्प C सही उत्तर है।

52. A

Sol. दिया गया है:

$$\text{मूलधन} = 8000 \text{ रुपये, ब्याज की दर} = 15\% \text{ प्रतिवर्ष}$$

$$\text{राशि} = 12167 \text{ रुपये}$$

$$\Rightarrow \text{मूलधन} \times (1 + R)^T = 12167$$

$$\Rightarrow 8000 \times (1 + 0.15)^T = 12167$$

$$\Rightarrow (1.15)^T = 12167/8000$$

$$\Rightarrow (1.15)^T = 1.520875$$

$$\Rightarrow (1.15)^T = (1.15)^3$$

$$\Rightarrow T = 3$$

इसलिए, 3 वर्षों में, 8000 रुपये 15% प्रति वर्ष की दर से 12167 रुपये हो जाएंगे।

अतः विकल्प A सही उत्तर है।

53. B

Sol. दिया गया है:

16000 रुपये राहुल और विनोद के बीच विभाजित किये जाते हैं।

राहुल ने 7.5% प्रति वर्ष की दर से निवेश किया। साधारण ब्याज पर 4 वर्ष के लिए।

विनोद ने 12% प्रति वर्ष की दर से निवेश किया। साधारण ब्याज पर 4 वर्ष के लिए।

माना राहुल द्वारा निवेश की गई राशि  $x$  रुपये है।

तो, विनोद द्वारा निवेश की गई राशि =  $(16000 - x)$  रुपये

अब, प्रश्न के अनुसार,

कुल ब्याज = 6024 रुपये

$\Rightarrow$  राहुल का मूलधन  $\times$  दर  $\times$  समय + विनोद का मूलधन  $\times$  दर  $\times$  समय = 6024

$$\Rightarrow (x) \times 7.5\% \times 4 + (16000 - x) \times 12\% \times 4 = 6024$$

$$\Rightarrow 0.30x + 7680 - 0.48x = 6024$$

$$\Rightarrow 0.18x = 7680 - 6024$$

$$\Rightarrow 0.18x = 1656$$

$$\Rightarrow x = 1656/0.18 = 9200$$

इसलिए, राहुल द्वारा निवेश की गई राशि 9200 रुपये है।

अतः विकल्प B सही उत्तर है।

54. A

Sol. माना कि जोड़ी जाने वाली संख्या  $x$  है।

तो, प्रश्न के अनुसार,

$$\frac{7+x}{4+x} = \frac{4+x}{2+x}$$

$$\Rightarrow 14 + 9x + x^2 = 16 + 8x + x^2$$

$$\Rightarrow 9x - 8x = 16 - 14$$

$$\Rightarrow x = 2$$

इसलिए, प्रत्येक संख्या 7, 4 और 2 में 2 जोड़ा जाना चाहिए ताकि परिणामी संख्याएं निरंतर अनुपात में हो सकें।

अतः विकल्प A सही उत्तर है।

55. B

Sol. माना एक पेन की कीमत  $x$  रुपये और पेंसिल की कीमत  $y$  रुपये है।

तो, पहले मामले में,

$$5x + 3y = 44 \dots (i)$$

और दूसरे मामले में,

$$3x + 5y = 36 \dots (ii)$$

समीकरण (i)  $\times 5$  – समीकरण (ii)  $\times 3$  के द्वारा,

$$25x + 15y - 9x - 15y = 220 - 108$$

$$\Rightarrow 16x = 112$$

$$\Rightarrow x = 7$$

समीकरण (i) में  $x$  का मान रखें।

$$\Rightarrow 5 \times 7 + 3y = 44$$

$$\Rightarrow 3y = 44 - 35$$

$$\Rightarrow y = 9/3 = 3$$

आवश्यक अनुपात

एक पेन की कीमत : एक पेंसिल की कीमत = 7 : 3

अतः विकल्प B सही उत्तर है।

56. D

Sol. वार्षिक बचत

$$= 12 \times (\text{आवास पर खर्च और कपड़ों पर खर्च के बीच अंतर} \times \text{बचत का अनुपात} / \text{आवास का अनुपात} - \text{कपड़ों का अनुपात})$$

$$= 12 \times (1680 \times \frac{10}{15 - 9}) = 12 \times (1680 \times \frac{10}{6}) = 12 \times 2800$$

= 33600 रुपये

अतः विकल्प D सही उत्तर है।

57. C

Sol. भोजन और शिक्षा का संयुक्त प्रतिशत =  $40\% + 20\% = 60\%$

भोजन और शिक्षा का केंद्रीय कोण =  $360^\circ \times 60\% = 216^\circ$

अतः विकल्प C सही उत्तर है।

58. B

Sol. दिया गया है:

मासिक बचत = 5000 रुपये

अब, शिक्षा और कपड़ों पर कुल खर्च

= मासिक बचत  $\times$  शिक्षा का अनुपात + कपड़ों का अनुपात / बचत का अनुपात

$$= 5000 \times \frac{20 + 9}{10}$$

$$= 5000 \times \frac{29}{10}$$

= 14500 रुपये

अतः विकल्प B सही उत्तर है।

59. A

Sol. दिया गया है:

बेलनाकार स्तंभ की ऊँचाई = 5.6 मीटर

और स्तंभ का व्यास = 75 सेमी या 0.75 मीटर

स्तंभ की तिरज्या =  $0.75/2 = 0.375$  मीटर

स्तंभ का वक्र पृष्ठ क्षेत्रफल =  $2\pi rh$

$$= 2 \times \frac{22}{7} \times 0.375 \times 5.6$$

$$= 13.2 \text{ मीटर}^2$$

स्तंभ के वक्र पृष्ठ क्षेत्रफल को पेंट करने की लागत

= स्तंभ का वक्र पृष्ठ क्षेत्रफल  $\times$  प्रति वर्ग मीटर दर

$$= 13.2 \times 15 = 198 \text{ रुपये}$$

अतः विकल्प A सही उत्तर है।

60. C

Sol. दिया गया है:

बंद बेलन के वक्र पृष्ठीय क्षेत्रफल और आयतन का अनुपात = 4 : 7

$$\Rightarrow \frac{2\pi rh}{\pi r^2 h} = \frac{4}{7}$$

$$\Rightarrow \frac{2}{r} = \frac{4}{7}$$

$$\Rightarrow 4r = 14$$

$$\Rightarrow r = 14/4$$

$$\Rightarrow r = 7/2 \text{ सेमी}$$

अब, बेलन का कुल पृष्ठीय क्षेत्रफल =  $253 \text{ सेमी}^2$  (दिया गया है)

$$\Rightarrow 2\pi(r + h) = 253$$

$$\Rightarrow 2 \times \frac{22}{7} \times \frac{7}{2} \left( \frac{7}{2} + h \right) = 253$$

$$\Rightarrow 22 \times \left( \frac{7}{2} + h \right) = 253$$

$$\Rightarrow \left( \frac{7}{2} + h \right) = \frac{253}{22}$$

$$\Rightarrow h = \frac{23}{2} - \frac{7}{2}$$

$$\Rightarrow h = \frac{23 - 7}{2}$$

$$\Rightarrow h = 16/2 = 8 \text{ सेमी}$$

अतः विकल्प C उत्तर है।

61. A

Sol. दिया गया है:

$$\text{दूरी} = 1300 \text{ मीटर या } 1.3 \text{ किमी और गति} = 26 \text{ किमी/घंटा}$$

$$\text{दूरी तय करने में लगा समय} = \text{दूरी} / \text{गति}$$

$$= \frac{1.3}{26} = 0.05 \text{ घंटे या } 0.05 \times 60 = 3 \text{ मिनट}$$

अतः विकल्प A सही उत्तर है।

62. D

Sol. माना बड़ी संख्या  $7x$  है।

$$\text{तो, छोटी संख्या} = (7x) \times \frac{4}{7} = 4x$$

अब, हम जानते हैं कि दो संख्याओं के म.स. और ल.स. का गुणन इन संख्याओं के गुणन के बराबर होता है।

इसलिए,

$$\text{म.स.} \times \text{ल.स.} = \text{संख्याओं का गुणन}$$

$$\Rightarrow 8 \times 224 = (4x) \times (7x)$$

$$\Rightarrow 28x^2 = 1792$$

$$\Rightarrow x^2 = 1792/28$$

$$\Rightarrow x^2 = 64$$

$$\Rightarrow x = \sqrt{64} = 8$$

इसलिए, बड़ी संख्या =  $7x = 7 \times 8 = 56$

अतः विकल्प D सही उत्तर है।

63. A

Sol. पहले 20 ओवर का रन रेट = 5.2 (दिया गया है)

इसलिए, पहले 20 ओवर में बनाए गए रन

$$= \text{ओवर} \times \text{रन रेट प्रति ओवर} = 20 \times 5.2 = 104$$

अगले 30 ओवरों में रन बनाने होंगे रन

$$= \text{लक्ष्य} - \text{पहले } 30 \text{ ओवर में बनाए गए रन} = 344 - 104 = 240$$

आवश्यक रन रेट = आवश्यक रन/शेष ओवर

$$= 240/30 = 8 \text{ प्रति ओवर रन}$$

अतः विकल्प A सही उत्तर है।

64. B

Sol. माना रेणुका द्वारा अंग्रेजी में प्राप्त अंक  $4x$  हैं।

तो, उसके द्वारा गणित में प्राप्त अंक =  $(4x) \times 1.5 = 6x$

और विज्ञान में उसके द्वारा प्राप्त अंक =  $(6x) \times \frac{3}{2} = 9x$

उसके द्वारा प्राप्त कुल अंक = 190 (दिया गया है)

$$\Rightarrow 4x + 6x + 9x = 190$$

$$\Rightarrow 19x = 190$$

$$\Rightarrow x = 190/19 = 10$$

इसलिए, विज्ञान में रेणुका द्वारा प्राप्त अंक =  $9x = 9 \times 10 = 90$

अतः विकल्प B सही उत्तर है।

65. D

Sol. दिया गया है:

एक वस्तु को 5,600 रुपये में बेचने के बाद अर्जित लाभ, 2400 रुपये में इस वस्तु को बेचने के बाद हुई हानि के बराबर है।

माना लाभ  $x$  रुपये है

तो, दोनों ही मामलों में, लागत समान होगी,

$$5600 - \text{लाभ} = 2400 + \text{लाभ}$$

$$\Rightarrow 5600 - x = 2400 + x$$

$$\Rightarrow x + x = 5600 - 2400$$

$$\Rightarrow 2x = 3200$$

$$\Rightarrow x = 3200/2 = 1600$$

इसलिए, लाभ 1600 रुपये है।

और लागत =  $5600 - 1600 = 4000$  रुपये

$$\text{लाभ } (\%) \text{ में) } = \frac{1600}{4000} \times 100 = 40\%$$

अतः विकल्प D सही उत्तर है।

66. B

Sol. माना एक पुरुष की एक दिन की कमाई  $x$  रुपये और एक महिला की  $y$  रुपये है।

अब, पहले मामले में - 4 पुरुष और 5 महिलाएं 8 दिनों में 8,800 रुपये कमा सकते हैं

$$8 \times 4 \times (x) + 8 \times 5 \times (y) = 8800$$

$$\Rightarrow 4x + 5y = 8800/8$$

$$\Rightarrow 4x + 5y = 1100 \dots (i)$$

और दूसरे मामले में – 7 पुरुष और 10 महिलाएं 5 दिनों में 10,250 रुपये कमा सकते हैं

$$5 \times 7 \times (x) + 5 \times 10 \times (y) = 10250$$

$$\Rightarrow 7x + 10y = 10250/5$$

$$\Rightarrow 7x + 10y = 2050 \dots (ii)$$

समीकरण (i)  $\times 2$  – समीकरण (ii) के द्वारा

$$8x + 10y - 7x - 10y = 2200 - 2050$$

$$\Rightarrow x = 150$$

समीकरण (i) में x का मान रखें।

$$4 \times 150 + 5y = 1100$$

$$\Rightarrow 5y = 1100 - 600$$

$$\Rightarrow y = 500/5 = 100$$

इसलिए, 8 पुरुषों और 12 महिलाओं की एक दिन की कमाई

$$= 8x + 12y = 8 \times 150 + 12 \times 100 = 1200 + 1200 = 2400 \text{ रुपये}$$

21600 रुपये कमाने में 8 पुरुषों और 12 महिलाओं द्वारा लिया गया समय

$$= 21600/2400 = 9 \text{ दिन}$$

अतः विकल्प B सही उत्तर है।

67. D

Sol.

$$1\frac{1}{16} - \left( \frac{2}{5} \text{ of } \frac{5}{32} \right) - \frac{1}{3} \div \frac{3}{7} \text{ of } \frac{49}{50} + 2 - (4 \times 19) \div 63$$

$$= \frac{17}{16} - \left( \frac{1}{16} \right) - \frac{1}{3} \div \frac{21}{50} + 2 - (4 \times 19) \div 63$$

$$= \frac{17}{16} - \left( \frac{1}{16} \right) - \frac{1}{3} \times \frac{50}{21} + 2 - 76 \div 63$$

$$= \frac{17}{16} - \left( \frac{1}{16} \right) - \frac{50}{63} + 2 - \frac{76}{63}$$

$$= \frac{17 - 1}{16} - \frac{50}{63} + 2 - \frac{76}{63}$$

$$= \frac{16}{16} - \frac{50}{63} + 2 - \frac{76}{63}$$

$$= 1 - \frac{50}{63} + 2 - \frac{76}{63}$$

$$= \frac{63 - 50 + 126 - 76}{63} = \frac{63}{63}$$

$$= 1$$

अतः विकल्प D सही उत्तर है।

68. C

Sol. दिया गया है:

एक खोखले अर्धगोलाकार कटोरे की आंतरिक तिरज्या ( $r_i$ ) = 20 सेमी

और खोखले अर्धगोलाकार कटोरे की बाहरी तिरज्या ( $r_e$ ) = 23 सेमी

अब, कटोरे का कुल पृष्ठीय क्षेत्रफल = कटोरे का बाहरी वक्र पृष्ठीय क्षेत्रफल + कटोरे का आंतरिक वक्र पृष्ठीय क्षेत्रफल + कटोरे के शीर्ष के वृत्ताकार वलय का क्षेत्रफल

$$= 2\pi r_e^2 + 2\pi r_i^2 + \pi(r_e^2 - r_i^2)$$

$$= 2\pi(23)^2 + 2\pi(20)^2 + \pi(23^2 - 20^2)$$

$$= 2p(529 + 400) + p(529 - 400)$$

$$= 929 \times 2p + 129p$$

$$= 1858p + 129p$$

$$= 1987p$$

अतः विकल्प C सही उत्तर है।

69. B

Sol. 20 और 45 के बीच की अभाज्य संख्याएँ

23, 29, 31, 37, 41 और 43

अब, उपरोक्त संख्याओं का माध्य = संख्याओं का योग / संख्याओं की संख्या =  $\frac{23 + 29 + 31 + 37 + 41 + 43}{6}$

$$= \frac{204}{6} = 34$$

अतः विकल्प B सही उत्तर है।

70. B

Sol. माना वस्तु का क्रय मूल्य  $3x$  रुपये है।

तो, विक्रय मूल्य =  $(3x) \times \frac{4}{3} = 4x$  रुपये

अब, लाभ प्रतिशत = विक्रय मूल्य - क्रय मूल्य / क्रय मूल्य \* 100

$$= \left( \frac{4x - 3x}{3x} \right) \times 100 = \left( \frac{x}{3x} \right) \times 100 = 33\frac{1}{3}\%$$

अतः विकल्प B सही उत्तर है।

71. A

Sol. दिया गया है:

एक ठोस लम्ब वृत्तीय बेलन का व्यास = 21 सेमी

इसके आधार की त्रिज्या ( $r$ ) =  $21/2$  सेमी

तथा इसका कुल पृष्ठीय क्षेत्रफल =  $1617$  सेमी<sup>2</sup>

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

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

$$\Rightarrow 22 \times 3 \left( \frac{21}{2} + h \right) = 1617$$

$$\Rightarrow \left( \frac{21}{2} + h \right) = \frac{1617}{22 \times 3}$$

$$\Rightarrow h = \frac{49}{2} - \frac{21}{2}$$

$$\Rightarrow h = \frac{49 - 21}{2}$$

$$\Rightarrow h = 14 \text{ सेमी}$$

अब, इसका आयतन =  $pr^2h$

$$= \frac{22}{7} \times \left( \frac{21}{2} \right)^2 \times 14$$

$$= 4851 \text{ सेमी}^3$$

अतः विकल्प A सही उत्तर है।

72. A

Sol. माना कि उसके द्वारा तय की गई कुल दूरी  $4x$  किमी है।

तो, परश्न के अनुसार,

$$\Rightarrow \frac{(4x) \times \frac{3}{4}}{5} + \frac{(4x) - (4x) \times \frac{3}{4}}{6} = 5 + \frac{22}{60}$$

$$\Rightarrow \frac{3x}{5} + \frac{4x - 3x}{6} = 5 + \frac{11}{30}$$

$$\Rightarrow \frac{3x}{5} + \frac{x}{6} = \frac{150 + 11}{30}$$

$$\Rightarrow \frac{18x + 5x}{30} = \frac{161}{30}$$

$$\Rightarrow 23x = 161$$

$$\Rightarrow x = 161/23 = 7$$

इसलिए, धीरज द्वारा तय की गई कुल दूरी =  $4 \times 7 = 28$  किमी

अतः विकल्प A सही उत्तर है।

73. B

Sol. माना कुल कार्य  $140x$  इकाई है।

तो, A की दक्षता =  $140x/20 = 7x$  इकाई/दिन

और B की दक्षता =  $140x/14 = 10x$  इकाई/दिन

A और B की संयुक्त दक्षता =  $7x + 10x = 17x$  इकाई/दिन

A और B द्वारा एक साथ 7 दिनों में किया गया कार्य =  $(17x) \times 7 = 119x$  units

शेष कार्य =  $140x - 119x = 21x$  इकाई

शेष कार्य भिन्न में =  $\frac{21x}{140x} = \frac{3}{20}$

अतः विकल्प B सही उत्तर है।

74. A

Sol. मान लीजिए सोनू कुमार का मासिक वेतन  $100x$  रुपये है।

तो,

$$\text{भोजन पर खर्च} = (100x) \times 42\% = 42x \text{ रुपये}$$

$$\text{किराए पर खर्च} = (100x) \times 16\% = 16x \text{ रुपये}$$

$$\text{मनोरंजन पर खर्च} = (100x) \times 10\% = 10x \text{ रुपये}$$

$$\text{परिवहन पर व्यय} = (100x) \times 7\% = 7x \text{ रुपये}$$

सोनू कुमार की बचत = आवश्यकता – लिया गया ऋण

$$\Rightarrow 100x - 42x - 16x - 10x - 7x = 18000 - 12500$$

$$\Rightarrow 25x = 5500$$

$$\Rightarrow x = 5500/25 = 220$$

इसलिए, सोनू कुमार का मासिक वेतन

$$= 100x = 100 \times 220 = 22000 \text{ रुपये}$$

अतः विकल्प A सही उत्तर है।

75. D

Sol. दिया गया है:

किसी वस्तु का अंकित मूल्य = 12500 रुपये

अब, पहली छूट के बाद कीमत =  $12500 - 12500 \times 14.5\%$

$$= 12500 - 1812.5 = 10687.5 \text{ रुपये}$$

9405 रुपये कीमत बनाने के लिए आवश्यक छूट =  $10687.5 - 9405 = 1282.5 \text{ रुपये}$

$$\text{आवश्यक छूट (\% में)} = \frac{1282.5}{10687.5} \times 100 = 12\%$$

अतः विकल्प D सही उत्तर है।

76. B

Sol. • चेराओबा उत्सव को 'मणिपुरी नव वर्ष' के नाम से भी जाना जाता है।

- यह सौर कैलेंडर पर आधारित मणिपुर नव वर्ष है और यह 13 या 14 अप्रैल को मनाया जाता है।
- यह एक लोकप्रिय उत्सव है जो स्थानीय लोगों के दिलों में बहुत महत्व रखता है।
- यह परिवारों, रिश्तेदारों और पड़ोसियों के बीच प्रेम और भाईचारे के संबंधों या बंधन को मजबूत करने के लिए मनाया जाता है।
- मणिपुर अपनी शाश्वत सुंदरता, राजसी पहाड़ियों, भव्य हरियाली और प्रशांत वातावरण के लिए जाना जाता है।
- हेकरु हिडोंगबा मणिपुर में मनाया जाने वाला पारंपरिक नाव दौड़ उत्सव है।

77. B

Sol. • तिलैया अल्ट्रा मेगा पावर प्रोजेक्ट झारखंड में स्थित है।

- यह रिलायंस पावर के पावर पोर्टफोलियो में तीसरा अल्ट्रा मेगा पावर प्रोजेक्ट है।
- इसे झारखंड इंटीग्रेटेड पावर लिमिटेड द्वारा विकसित किया जा रहा है जो कंपनी की पूर्ण स्वामित्व वाली सहायक कंपनी है।
- अल्ट्रा मेगा पावर प्रोजेक्ट भारत सरकार द्वारा नियोजित महत्वाकांक्षी पावर स्टेशनों की एक शृंखला है।
- झारखंड को अपार जैव-विविधता, मध्यम जलवायु, समृद्ध सांस्कृतिक और ऐतिहासिक विरासत, धार्मिक स्थलों और जातीयता का आशीर्वाद प्राप्त है।
- यह दुनिया के सबसे समृद्ध खनिज क्षेत्रों में से एक है।

78. C

Sol. • 1975 में जब राष्ट्रीय आपातकाल घोषित किया गया था तब फखरुद्दीन अली अहमद भारत के राष्ट्रपति थे।

- उन्होंने 1974 से 1977 तक भारत के 5वें राष्ट्रपति के रूप में कार्य किया और वह पद पर रहते हुए मरने वाले भारत के दूसरे राष्ट्रपति थे।
- नीलम संजीव रेड्डी ने 1977 से 1982 तक भारत के छठे राष्ट्रपति के रूप में कार्य किया।
- वराहगिरी वेंकट गिरि स्वतंत्र उम्मीदवार के रूप में चुने जाने वाले एकमात्र राष्ट्रपति थे।
- जाकिर हुसैन दुनिया के सर्वश्रेष्ठ तबला वादकों में से एक हैं और उन्हें भारत के सबसे प्रसिद्ध तालवादक कलाकार के रूप में जाना जाता है।

79. D

Sol. • सिलिकॉन डाइऑक्साइड का गलनांक उच्च होता है।

- यह सबसे आम सिलिकॉन यौगिक है और पृथ्वी की पपड़ी का एक प्रमुख घटक है।
- यह एक प्राकृतिक यौगिक है जो पृथ्वी के दो सबसे प्रचुर पदार्थों से बना है।
- इसे सिंथेटिक अनाकार सिलिका के रूप में भी जाना जाता है और इसका रासायनिक सूत्र  $\text{SiO}_2$  है।
- इसका उपयोग निर्माण उद्योग में कंकरीट के उत्पादन के लिए किया जाता है और इसका उपयोग कांच के उत्पादन में भी किया जाता है।
- इसका उपयोग सिरेमिक, तामचीनी, कंकरीट और विशेष सिलिका ईंटों को आग रोक सामग्री के रूप में उपयोग करने के लिए किया जाता है।

80. A

Sol. • कार्बन के 3 प्राकृतिक समस्थानिक होते हैं।

- प्राकृतिक रूप से पाए जाने वाले तीन समस्थानिक हैं:

a)  $^{12}\text{C}$

b)  $^{13}\text{C}$

c)  $^{14}\text{C}$

- कार्बन पृथ्वी की पपड़ी में 15वां सबसे प्रचुर तत्व है।

- यह ब्रह्मांड में द्रव्यमान के हिसाब से चौथा सबसे प्रचुर तत्व है और द्रव्यमान के हिसाब से मानव शरीर में दूसरा सबसे प्रचुर तत्व है।

- इसका उपयोग कोयले, मीथेन गैस और कच्चे तेल के रूप में ईंधन के लिए किया जाता है।

81. B

Sol. • विक्रमादित्य VI, जिनके दरबारी कवि बिल्हण ने उनकी जीवनी लिखी थी, चालुक्य वंश के शासक थे।

- उन्होंने दक्षिण भारत पर शासन किया और उन्हें कर्नाटक के इतिहास में एक गौरवपूर्ण स्थान प्राप्त हुआ।

- उन्हें कला और पत्रों के संरक्षण के लिए जाना जाता है।

- वह पश्चिमी चालुक्य राजाओं में सबसे महान था और राजवंश में उसका सबसे लंबा शासन था।

- चालुक्य वंश एक शास्त्रीय भारतीय राजवंश था जिसने 6 वीं और 12 वीं शताब्दी के बीच दक्षिणी और मध्य भारत के बड़े हिस्से पर शासन किया।

- राष्ट्रकूट राजवंश बहुतायत में अपने बहादुर योद्धाओं और सक्षम प्रशासकों की के लिए प्रसिद्ध है।

82. C

Sol. • संघ लोक सेवा आयोग का एक सदस्य भारत के संविधान के अनुसार छह साल की अवधि के लिए या 65 वर्ष की आयु प्राप्त करने तक पद धारण करता है।

- संघ लोक सेवा आयोग भारत सरकार के समूह 'A' के अधिकारियों के लिए भारत की प्रमुख केंद्रीय भर्ती एजेंसी है।

- यह एक संवैधानिक निकाय है और इसमें एक अध्यक्ष और दस सदस्य होते हैं।

- यह संघ की सेवाओं में नियुक्तियों के लिए परीक्षा आयोजित करने के लिए जिम्मेदार है।

- आयोग के अध्यक्ष और सदस्यों की सेवा के नियम और शर्तें संघ लोक सेवा आयोग विनियम, 1969 द्वारा शासित होती हैं।

83. A

Sol. • बर्कशायर हैथवे अरबपति वारेन बफेट द्वारा संचालित एक फर्म है।

- यह एक अमेरिकी बहुराष्ट्रीय समूह होलिडंग कंपनी है जिसका मुख्यालय ओमाहा, नेब्रास्का, संयुक्त राज्य अमेरिका में है।

- यह दुनिया की आठवीं सबसे बड़ी सार्वजनिक कंपनी है।

- यह राजस्व के हिसाब से दसवां सबसे बड़ा समूह है और दुनिया में राजस्व के हिसाब से सबसे बड़ी वित्तीय सेवा कंपनी है।

- जेपी मॉर्गन चेज़ 30 सितंबर, 2021 तक संयुक्त राज्य अमेरिका का सबसे बड़ा बैंक है।

- बैंक ऑफ अमेरिका संयुक्त राज्य में दूसरा सबसे बड़ा बैंकिंग संस्थान है।

84. C

Sol. • वीरेंद्र कुमार अगस्त 2020 में भारतीय संसदीय समूह के अध्यक्ष थे।

- उन्हें जून 2019 में 17वीं लोकसभा के प्रोटेम स्पीकर के रूप में भी चुना गया था।

- सुमित्रा महाजन 16वीं लोकसभा में संसद की महिला सदस्यों में सबसे बड़ी और वरिष्ठ थीं।

- उन्हें 2021 में भारत के तीसरे सर्वोच्च नागरिक पुरस्कार पद्म भूषण से सम्मानित किया गया था।

- ओम बिडला लोकसभा के 17वें और वर्तमान अध्यक्ष हैं।

- एम. वेंकैया नायदू 11 अगस्त 2017 से भारत के वर्तमान उपराष्ट्रपति और राज्यसभा के सभापति हैं।

85. D

Sol. • भारत में 24 दिसंबर को राष्ट्रीय उपभोक्ता दिवस मनाया जाता है।

- यह उपभोक्ता आंदोलन के महत्व को उजागर करने के लिए प्रतिवर्ष मनाया जाता है।
- यह प्रत्येक उपभोक्ता के अधिकारों और जिम्मेदारियों के बारे में जागरूकता फैलाता है।
- राष्ट्रीय उपभोक्ता दिवस 2021 “टैकलिंग प्लास्टिक पोलुशन” विषय के तहत मनाया जा रहा है।
- भारत में 26 नवंबर को संविधान दिवस के रूप में मनाया जाता है।

- यह भारत के संविधान को अपनाने के उपलक्ष्य में मनाया जाता है।

86. B

Sol. • क्रोमाइट नामक खनिज का वैज्ञानिक नाम आयरन क्रोमियम ऑक्साइड है।

- क्रोमाइट एक क्रिस्टलीय खनिज है जो मुख्य रूप से आयरन ऑक्साइड और क्रोमियम ऑक्साइड यौगिकों से बना होता है।
- यह धात्तिक चमक वाला रंग में काले लोहे का होता है, एक गहरे भूरे रंग की लकीर और मोह पैमाने पर 5.5 की कठोरता होती है।
- इसे  $\text{FeCr}_2\text{O}_4$  के रासायनिक सूत्र द्वारा दर्शाया जा सकता है और यह एक ऑक्साइड खनिज है जो स्पिनल समूह से संबंधित है।
- चट्टानों के निर्माण की स्थितियों को निर्धारित करने में मदद करने के लिए यह एक महत्वपूर्ण खनिज है।

87. D

Sol. • किनचेन 2022 के एशियाई खेलों - 'द स्मार्ट ट्रिपल्स' के आधिकारिक शुभंकर में से एक नहीं है।

- एशियाई ओलंपिक परिषद द्वारा चीन के हांगजो में एक डिजिटल लॉन्च समारोह में शुभंकर का अनावरण किया गया।
- कांगकांग लिआंगझू शहर के पुरातात्त्विक खंडहरों को दर्शाता है।
- लियानलियान हरे-भरे कमल के पत्तों से भरी झील का प्रतीक है।
- चेनचेन बीजिंग-हांगजो ग्रैंड कैनाल को दर्शाता है।
- 2022 के एशियाई खेल 10 से 25 सितंबर 2022 तक मनाया जाने वाला एक बहु-खेल कार्यक्रम होगा।

88. C

Sol. • पोलियो एक ऐसी बीमारी है जो फ्लेविवायरस से नहीं होती है।

- यह पोलियो वायरस के कारण होने वाला एक संक्रामक रोग है।
- येलो फीवर, डेंगू फीवर, जापानी इंसेफेलाइटिस, वेस्ट नाइल वायरस और जीका वायरस फ्लेविवायरस के कारण होने वाले रोग हैं।
- फ्लेविवायरस फ्लैविविरिडे परिवार में सकारात्मक-स्ट्रॉड आरएनए वायरस का एक जीनस है।
- पीत ज्वर आमतौर पर कम अवधि का वायरल रोग है और संक्रमित मच्छर के काटने से फैलता है।
- डेंगू एक वायरल संक्रमण है जो संक्रमित मच्छरों के काटने से इंसानों में फैलता है।

89. C

- Sol.
- मार्च 2020 में अंतिम सांस लेने वाली भारतीय मूल की दक्षिण अफ्रीकी गीता रामजी को वायरोलॉजी में उनके योगदान के लिए अंतरराष्ट्रीय स्तर पर जाना जाता है।
  - गीता रामजी दक्षिण अफ्रीका में कोरोनावायरस संक्रमण से मरने वाली भारतीय मूल की पहली व्यक्ति हैं।
  - वह युगांडा-दक्षिण अफ्रीकी वैज्ञानिक और एचआईवी रोकथाम में शोधकर्ता थे।
  - विषाणु विज्ञान एक वैज्ञानिक अनुशासन है जो वायरस और वायरल रोगों के जीव विज्ञान के अध्ययन से संबंधित है।
  - परमाणु भौतिकी विज्ञान का एक क्षेत्र है जो परमाणुओं के नाभिक, उनके गठन और स्थिरता का अध्ययन करता है।

90. D

- Sol.
- महादेव पहाड़ियाँ मुख्य रूप से मध्य प्रदेश में फैली हुई हैं।
  - वे सतपुड़ा रेंज के उत्तरी भाग में स्थित हैं।
  - धूपगढ़ महादेव की सबसे ऊँची चोटी है और पंचमढ़ी इस शरणी का एक महत्वपूर्ण हिल स्टेशन है।
  - मध्य प्रदेश क्षेत्रफल के हिसाब से दूसरा सबसे बड़ा भारतीय राज्य है और जनसंख्या के हिसाब से पाँचवाँ सबसे बड़ा राज्य है।
  - इसके पास भारत में हीरे और तांबे का सबसे बड़ा भंडार है।
  - संपदाओं के भण्डार के कारण इसे 'भारत के दिल' के रूप में जाना जाता है।

91. D

- Sol.
- भारत के वित्त आयोग का गठन संविधान के अनुच्छेद 280 के तहत राष्ट्रपति द्वारा किया जाता है।
  - इसका गठन भारत की केंद्र सरकार और अलग-अलग राज्य सरकारों के बीच वित्तीय संबंधों को परिभाषित करने के लिए किया गया है।
  - इसका गठन मुख्य रूप से केंद्र और राज्यों के बीच कर राजस्व के वितरण पर अपनी सिफारिशें देने के लिए किया गया है।

- राष्ट्रपति भारतीय सशस्त्र बलों के कार्यकारी के साथ-साथ कमांडर-इन-चीफ का नाममात्र प्रमुख होता है।

- भारत का उपराष्ट्रपति भारत के राज्य के प्रमुख का उप राष्ट्रपति और दूसरा सर्वोच्च संवैधानिक कार्यालय है।

92. D

Sol. • रानी रुद्रमादेवी काकतीय वंश से संबंधित हैं।

- वह भारत में राजाओं के रूप में शासन करने वाली बहुत कम महिलाओं में से एक थीं।

- काकतीय वंश एक दक्षिण भारतीय राजवंश था जिसने पूर्वी दक्कन क्षेत्र के अधिकांश भाग पर शासन किया था।

- चोल राजवंश विश्व इतिहास में सबसे लंबे समय तक शासन करने वाले राजवंशों में से एक है।

- वाकाटक वंश भारतीय उपमहाद्वीप का एक राजवंश था जिसकी उत्पत्ति तीसरी शताब्दी के मध्य में दक्कन से हुई थी।

- यह एक ब्राह्मण वंश था और विध्यशक्ति वाकाटक राजवंश के संस्थापक थे।

93. A

Sol. • राजस्व आय भारत के चालू खाता शेष को सीधे प्रभावित नहीं करती है।

- चालू खाता माल और सेवाओं दोनों के निर्यात और आयात और पूँजी के अंतर्राष्ट्रीय हस्तांतरण के मूल्य को रिकॉर्ड करता है।

- यह इसके भुगतान संतुलन के तीन घटकों में से एक है।

- यह विदेशों में देश की कर्माई और खर्च को मापता है और यह देश के विदेश व्यापार के दो प्रमुख उपायों में से एक है।

- इसे चालू खाता इसलिए कहा जाता है क्योंकि सामान और सेवाओं का आम तौर पर चालू अवधि में उपभोग किया जाता है।

- यह अर्थव्यवस्था के स्वास्थ्य का एक महत्वपूर्ण संकेतक है।

- इसे व्यापार संतुलन, विदेश से शुद्ध आय और शुद्ध चालू हस्तांतरण के योग के रूप में परिभाषित किया जाता है।

94. A

Sol. • नोकरेक बायोस्फीयर रिजर्व मेघालय में स्थित है।

- बायोस्फीयर रिजर्व का पूरा क्षेत्र पहाड़ी है और नोकरेक गारो पहाड़ियों की सबसे ऊँची छोटी है, जो 1,412 मीटर ऊपर उठती है।

- इस रिजर्व में प्रमुख नदियाँ और धाराएँ हैं जो बारहमासी जलग्रहण प्रणाली बनाती हैं।

- मेघालय ज्यादातर अपनी बलुआ पत्थर की गुफाओं, स्वच्छ गांवों, मंत्रमुग्ध करने वाले झारनों और लुभावने हिल स्टेशनों के लिए प्रसिद्ध है।

- यह विभिन्न प्रकार के फलों, सब्जियों, मसालों और औषधीय पौधों का भी घर है।
- अरुणाचल प्रदेश क्षेत्रफल के हिसाब से पूर्वोत्तर भारत के सेवन सिस्टर स्टेट्स में सबसे बड़ा है।

95. D

Sol. • मुंडा पारंपरिक रूप से अंडमान और निकोबार द्वीप समूह में रहने वाला आदिवासी समूह नहीं है।

- यह पश्चिम बंगाल, छत्तीसगढ़, उड़ीसा और बिहार राज्यों में संपन्न रूप से विस्तृत जनजाति है।
- मुंडाओं का रंग काला होता है और उनके बाल छोटे धुंधराले होते हैं।
- सेंटीनेलीस (Sentinelese) हिंद महासागर में अंडमान द्वीप समूह में से एक, उत्तरी सेंटिनल द्वीप पर रहने वाली एक असंबद्ध जनजाति है।
- ओंगे एक अंडमानी जातीय समूह है, जो दक्षिण पूर्व एशिया में अंडमान द्वीप समूह के मूल निवासी हैं।
- जरावा दक्षिण अंडमान और मध्य अंडमान द्वीप समूह के कुछ हिस्सों में निवास करने वाली स्थानीय जनजाति है।

96. D

Sol. • पदार्थ की पाँचवीं अवस्था को बोस-आइंस्टीन कंडेनसेट के नाम से भी जाना जाता है।

- बोस-आइंस्टीन कंडेनसेट पदार्थ की एक अवस्था है जो आमतौर पर तब बनती है जब कम घनत्व वाले बोसॉन की गैस को निरपेक्ष शून्य के बहुत करीब तापमान पर ठंडा किया जाता है।
- इसकी पहली भविष्यवाणी, आम तौर पर, 1924-1925 में अल्बर्ट आइंस्टीन ने की थी।
- पहला "शुद्ध" बोस-आइंस्टीन कंडेनसेट 5 जून 1995 को एरिक कॉर्नेल, कार्ल वाइमन और जेर्माईएलए में सहकर्मियों द्वारा बनाया गया था।
- पदार्थ की अवस्था उन विशिष्ट रूपों में से एक है जिसमें पदार्थ मौजूद हो सकता है।

• दैनिक जीवन में पदार्थ की चार अवस्थाएँ देखी जा सकती हैं:

a) ठोस

b) तरल

c) गैस

d) प्लाज्मा

97. D

Sol. • केवलादेव राष्ट्रीय उद्यान सितंबर 2020 तक यूनेस्को (यूनेस्को) की विश्व धरोहर सूची (प्राकृतिक) में अंकित है।

• इसे केवलादेव घाना राष्ट्रीय उद्यान के रूप में भी जाना जाता है और यह राजस्थान राज्य में स्थित है।

• यह पुरापाषाणकालीन प्रवासी जलपक्षी का एक महत्वपूर्ण शीत ऋतु का मैदान है।

• यह गैर-प्रवासी निवासी प्रजनन पक्षियों की बड़ी सभा के लिए प्रसिद्ध है।

• हेमिस राष्ट्रीय उद्यान लद्दाख में एक उच्च ऊंचाई वाला राष्ट्रीय उद्यान है।

• यह भारत में सबसे बड़ा अधिसूचित संरक्षित क्षेत्र है और दूसरा सबसे बड़ा सन्निहित संरक्षित क्षेत्र है।

98. C

Sol. • विंबलडन ओपन दुनिया का सबसे पुराना टेनिस टूर्नामेंट है।

• इसे व्यापक रूप से सबसे प्रतिष्ठित माना जाता है और इसे आउटडोर ग्रास कोर्ट पर खेला जाता है।

• यह अभी भी घास पर खेला जाने वाला एकमात्र प्रमुख खेल है, जो पारंपरिक टेनिस खेलने की सतह है।

• यूएस ओपन टेनिस चैंपियनशिप एक हार्डकोर्ट टेनिस प्रतियोगिता है।

• फरेंच ओपन दुनिया की प्रमुख क्लै कोर्ट चैंपियनशिप है और इस तरह की सतह पर वर्तमान में आयोजित होने वाला एकमात्र ग्रैंड स्लैम टूर्नामेंट है।

• ऑस्ट्रेलियन ओपन दक्षिणी गोलार्ध में सबसे बड़े खेल आयोजनों में से एक बन गया है।

99. A

Sol. • अरमान (ARMMAN) ने सामाजिक उद्यमिता 2020 के लिए स्कोल पुरस्कार जीता है।

• यह एक भारत-आधारित गैर-लाभकारी है जो एमहेल्थ (mHealth) का लाभ उठाती है जो गर्भवती महिलाओं और माताओं की निवारक जानकारी तक पहुंच में सुधार करने के लिए लागत प्रभावी, स्केलेबल, लिंग-संवेदनशील, गैर-रेखीय, प्रणालीगत समाधान तैयार करता है।

• यह सरकार और सहयोगी गैर सरकारी संगठनों के स्वास्थ्य कार्यकर्ता नेटवर्क का लाभ उठाकर "तकनीक प्लस टच" वृष्टिकोण अपनाता है।

• यह वर्तमान में सबसे बड़ा मोबाइल-आधारित मातृ संदेश कार्यक्रम और फ्रंटलाइन स्वास्थ्य कार्यकर्ताओं के लिए सबसे बड़ा मोबाइल-आधारित प्रशिक्षण कार्यक्रम लागू कर रहा है।

• ग्रीनपीस एक स्वतंत्र ग्लोबल कैंपेनिंग नेटवर्क है।

● गूंज एक गैर-सरकारी संगठन है जिसका मुख्यालय नई दिल्ली, भारत में है।

● इसकी स्थापना 1999 में अंशु गुप्ता ने की थी।

100. A

Sol. ● ब्रिटिश शासन के दौरान अन्य तीन संगठनों की तुलना में पहले ब्रह्म समाज की स्थापना की गई थी।

● यह भारत में सबसे प्रभावशाली धार्मिक आंदोलनों में से एक था और आधुनिक भारत के निर्माण में महत्वपूर्ण योगदान दिया।

● सत्यशोधक समाज 24 सितंबर 1873 को पुणे, महाराष्ट्र में ज्योतिबा फुले द्वारा स्थापित एक सामाजिक सुधार समाज था।

● परमहंस मंडली एक गुप्त सामाजिक-धार्मिक समूह था और इसकी स्थापना 1840 में हुई थी।

● प्रार्थना समाज बॉम्बे, भारत में धार्मिक और सामाजिक सुधार के लिए एक आंदोलन था।