



SSC MTS 2020 Tier I : 7

Oct S3

Mock Test Questions & Solutions

Mock Test Solutions in English

Questions

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

ICONIC

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

Remember that where there is a _____ there is a way.

- A. willing
 - B. wills
 - C. willed
 - D. will

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

There was many people who voted for him.

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

Going by the current pace of work, I _____ think this will finish by Sunday.

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

In India, people of all religions and castes live together and they are _____ in spite of cultural differences.

- A. confused
 - B. united
 - C. shared
 - D. learned

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

Sumit has decided to brought his car for the picnic.

FRIEND

- A. Companion
 - B. Partner
 - C. Helper
 - D. Foe

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

FOWL

- A. Dirty
 - B. Bird
 - C. Mistake
 - D. Unfair

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

CLEAR

- A. Black
 - B. Murky
 - C. White
 - D. Clean

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

The lockdowns has give many parents and grandparents the opportunity to share some of my nostalgic memories with their children and grandchildren.

11. Select the word which means the same as the group of words given.

One who leaves one's country to settle in another

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

Since India has started doing well in hockey it had once again become a popular sport.

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

Raining cats and dogs

- A. Facing light rain and wind B. Raining very heavily
C. Having lots of pets around you D. Worried about cats and dogs

14. Select the INCORRECTLY spelt word.

- A. Amanable B. Amicable
C. Amiable D. Approachable

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

I rang up an old friend of mine but she doesn't pick out the phone.

- A. No substitution required B. didn't pick up
C. isn't pick out D. wasn't picked up

16. Select the INCORRECTLY spelt word.

- A. Fasting B. Fabulus
C. Further D. Farther

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

People are slowly returning to their normal routine after opening up of the lockdown.

- A. No substitution required B. opening down
C. closing up D. closing

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

The teacher was very _____. She never let anyone play pranks in her class.

- A. happy B. jovial
C. lenient D. strict

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

How time flies!

- A. Time seems to stay still B. Difficult to pass time

A computer programmer, sometimes (1)____ a software developer, a programmer or more recently a coder, (2)____ a person who creates computer software. The term 'computer programmer' can (3)____ to a specialist in the area of computers, or to a generalist (4)____ writes codes for many kinds of software. Some programmers who (5)____ web programming languages add a prefix, a suffix, or both to every page's title.

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

A. work with

C. study with

B. display at

D. work of

26. Three statements are followed by three conclusions numbered I, II and III. Assuming the statements to be true even if they do not conform to real-world knowledge, decide which of the conclusion(s) logically follows/follow from the statements.

Statements:

A. All managers are employees.

B. All seniors are managers.

C. Some seniors are pensioners.

Conclusions:

I. Some pensioners are employees.

II. Some employees are pensioners.

III. All employees are seniors.

A. Only conclusion I follows

B. Only conclusions I and III follow

C. Only conclusions I and II follow

D. All conclusions I, II and III follow

27. Four girls 1, 2, 3 and 4, and four boys P, Q, R and S, are sitting around a round table facing the centre.

i. No two girls or boys are sitting next to each other.

ii. Q is sitting to the immediate left of 2.

iii. S is sitting between 1 and 4 and is facing R.

Who is sitting between P and R?

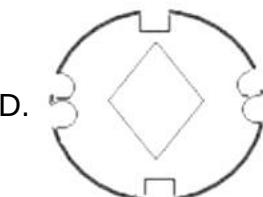
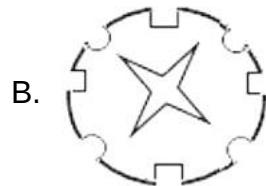
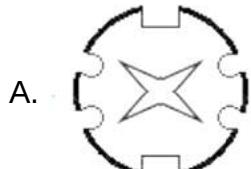
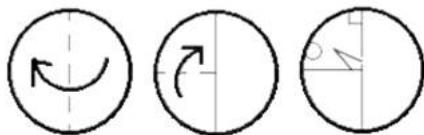
A. 1

B. 2

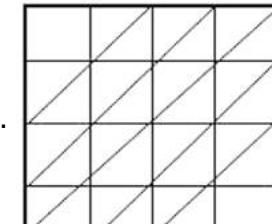
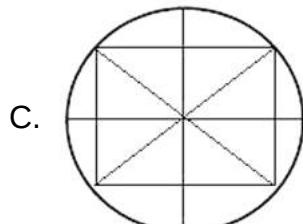
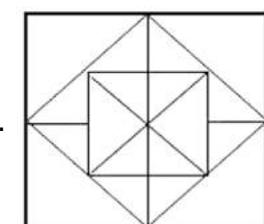
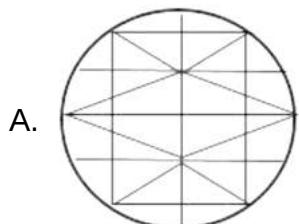
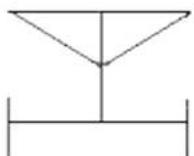
C. 3

D. 4

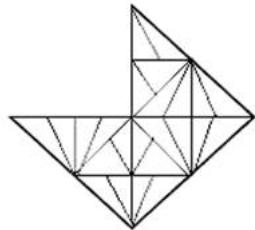
28. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the figures below. How would the paper look when unfolded?



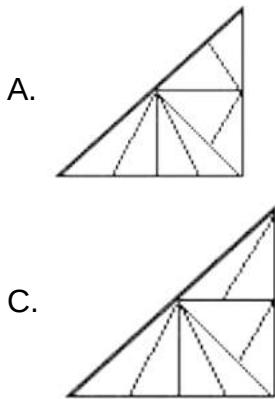
29. Select the option in which the given figure is embedded (rotation is NOT allowed).



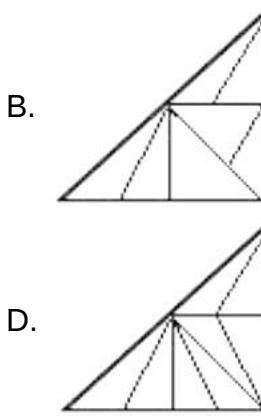
30. Select the option figure, which when placed in the blank space of the figure marked 'X', would complete the pattern.



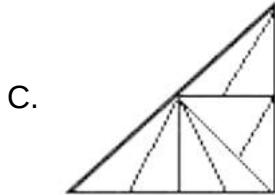
(X)



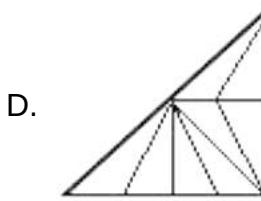
A.



B.



C.



D.

31. Choose the set of numbers that is similar to the following set.

{12, 18, 6}

- A. {18, 9, 8} B. {9, 14, 11}
C. {16, 12, 8} D. {15, 13, 11}

32. 'Water' is related to 'Filter' in the same way as 'Film' is related to '_____'.
A. Casting B. Director
C. Censor D. Producer

33. If NATURE is coded as MCQYMK, then how would CREST be coded?

- A. CPHOY B. BTBOY
C. BTHKO D. BTBWO

34. If the signs – and + are interchanged, then which of the following equations would be correct?

- A. $7 \times 3 + 9 - 6 = 17$ B. $12 + 3 \times 2 - 4 = 10$
C. $10 - 5 - 10 + 5 = 8$ D. $9 - 6 \times 2 + 8 = 11$

35. 'Cataract' is related to 'Ophthalmology' in the same way as 'Neurosis' is related to '_____.
A. Neurology B. Sociology
C. Psychology D. Biology

36. Seven different coloured books are kept one after the other.
- The RED book is just on the top of the ORANGE book.
 - The BLUE book is between the GREEN and the YELLOW books.
 - The VIOLET book is between the GREEN and the BLACK books.
 - There are as many books between the GREEN and the RED books as there are between the BLACK and the BLUE books.

If the YELLOW book is on the top, which book is exactly in the middle?

- | | |
|-----------|----------|
| A. ORANGE | B. RED |
| C. VIOLET | D. GREEN |

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

BDF, HKN, PRT, VYB, DFH, ?

- | | |
|--------|--------|
| A. JMP | B. KNQ |
| C. JLN | D. JLK |

38. Two statements are followed by two conclusions numbered I and II. Assuming the statements to be true even if they do not conform to real-world knowledge, decide which of the conclusion(s) logically follows/follow from the statements.

Statements:

1. All hostels are buildings.
2. Some buildings are palaces.

Conclusions:

- | | |
|--------------------------------------|-------------------------------|
| I. Some palaces are hostels. | |
| II. No palace is a hostel. | |
| A. Either conclusion I or II follows | B. Only conclusion II follows |
| C. Both conclusions I and II follow | D. Only conclusion I follows |

39. If PEARS is coded as 101 and CAT is coded as 49, then how would MEAL be coded?
A. 73 B. 77
C. 63 D. 31

40. If PAYMENT is coded as 7174552, then how would YOUNGER be coded?
A. 7153540 B. 2121751
C. 7635759 D. 5514758

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

SPIKE : QRHDL :: JINGO : ?
A. HKOPF B. JIMNH
C. KLMNE D. MNHIJ

42. Select the number-pair in which the two numbers are related in the same way as the two numbers of the pair given below.

11 : 72
A. 9 : 48 B. 3 : 7
C. 7 : 32 D. 15 : 95

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

2, 3, 6, 10, 17, ?
A. 30 B. 25
C. 28 D. 27

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

3, 7, 22, 45, 136, ?, 820
A. 293 B. 517
C. 273 D. 409

45. If HOARDING is coded as NGQZHCFM, then how would TREATISE be coded?
A. QSSHLDZRD B. DQSHSZDR
C. SUBFJUET D. QSZDHSDR

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

$$8 + 6 \times 4 \div 2 - 10 = 6$$

- A. + and \times
B. \times and –
C. \times and =
D. – and +

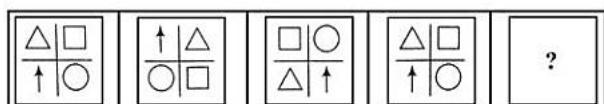
47. P, Q, R, S, T, U and V are standing in a queue.

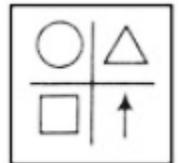
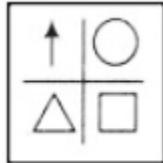
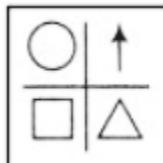
- i. T is just behind P.
ii. V is just in front of Q, who is not the last person.
iii. S is between P and R.
iv. There is one person between T and Q.

Who is the last person in the queue?

- A. Q
B. S
C. U
D. T

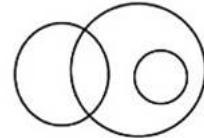
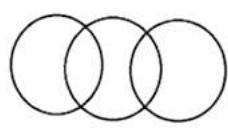
48. Which figure will replace the question mark (?) in the following figure series?

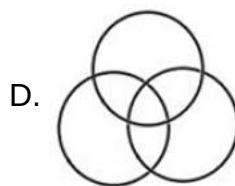
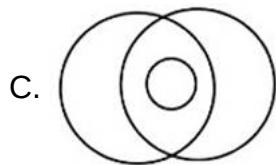


- A. 
B. 
C. 
D. 

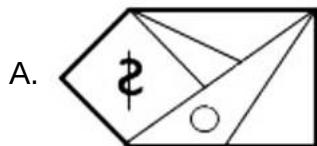
49. Select the Venn diagram that best illustrates the relationship among the following classes.

Females, Relatives, Uncles

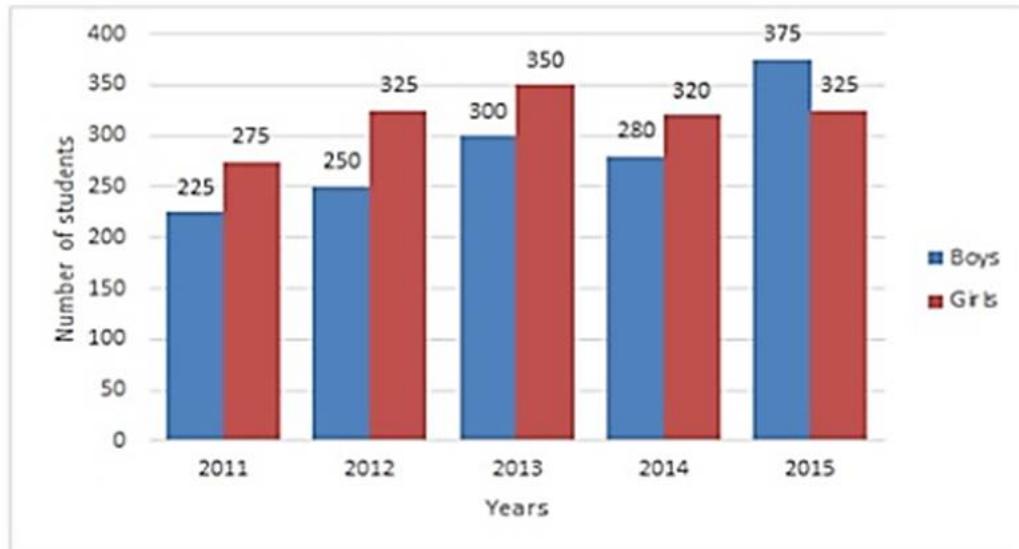
- A. 
B. 



50. Select the mirror image of the figure, when the mirror is placed on the right side of the figure.



51. If the radius of a circle is increased by 23%, then by what percentage will its area increase?
- A. 41.61% B. 51.29%
C. 27.89% D. 32.85%
52. Direction: Study the following graph that shows the number of boys and girls who appeared for the Class X examination in a school XYZ, in different years.



The average of the number of boys who appeared in 2011, 2013 and 2015 is what percentage less than the number of girls who appeared in 2014?

- C. 75 D. 72

57. The ratio of the speeds of two trains is 5 : 8. If the second train runs 600 km in 4 hours, then the speed of the first train (in km/h) is:
A. 25.5 B. 62.5
C. 37.75 D. 93.75

58. The total number of students in class A and B is 72. The number of students in A is 40% more than that in B. The average marks of students in B are 50% more than that of students in A. If the average marks of all the students in A and B are 58, then what are the average marks of students in A?
A. 58 B. 72
C. 50 D. 48

59. There are three positive numbers. If the average of any two of them is added to the third number, the resulting sums are 154, 148 and 132. The sum of the original three numbers is:
A. 222 B. 231
C. 246 D. 217

60. A sum of money doubled itself at a certain rate of compound interest in 10 years. In how many years will it become eight times?
A. 15 B. 30
C. 45 D. 25

61. If the annual rate of simple interest increases from 8% to $12\frac{1}{2}\%$, a person's yearly income increased by ₹639. The principal amount (in ₹) is:
A. 14,200 B. 8,200
C. 12,500 D. 11,250

62. 'A' can complete 40% of a work in 6 days, while 'B' can complete the work in $7\frac{1}{2}$ days. If they work together, then in how many days will the work be completed?
A. 4 B. 7
C. 6 D. 5

63. The marked price of an article is ₹5,450 . If a person earns a profit of 15% after allowing a discount of 15%, then the cost price (in ₹) (correct to the nearest integer) of the article is:
A. 4,498 B. 4,189
C. 4,289 D. 4,028

64. When an article is sold for ₹388, there is a loss of 3%. What is the selling price (in ₹) of the article, if it is

sold at a gain of 18%?

C. Cerebellum

D. Hypothalamus

90. _____ succumbed to injuries inflicted on him during a peaceful demonstration against the Simon Commission.

A. Bal Gangadhar Tilak

B. Gopal Krishna Gokhale

C. Bipin Chandra Pal

D. Lala Lajpat Rai

91. Which microorganism among the following causes Cholera?

A. Fungi

B. Bacteria

C. Protozoa

D. Virus

92. Which of the following statements is INCORRECT?

A. The liver secretes bile.

B. The liver is the largest gland in the body.

C. The liver is situated in the upper part of the abdomen on the left side.

D. The liver is reddish brown in colour.

93. The 'Clean Note Policy' was announced by the Reserve Bank of India in the year _____.

A. 1992

B. 1999

C. 1997

D. 1995

94. Gandhiji delivered the famous 'Do or Die' speech on _____.

A. 14 July 1942

B. 23 March 1942

C. 24 September 1942

D. 8 August 1942

95. The absolute refractive index of _____ is 2.42.

A. air

B. diamond

C. crown glass

D. water

96. 'PENCIL' is an acronym for _____, an electronic portal launched by the Government of India in September 2017.

A. Platform for Effective Enforcement for No Child Labour

B. Paradigm for Enforcement of Equality for Needy Child Labourers

C. Promulgation of Exhaustive Education for Normal & Comprehensive Learning

D. Protocol for Easy Education & Novel Creative Learning

97. Which of the following dams is located in Madhya Pradesh?

A. Tawa

B. Ujjani

C. Koyna

D. Isapur

98. National Waterway-1 of India covers:

- A. Haldia-Allahabad stretch of the Ganga-Bhagirathi- B. Assam-Mizoram stretch of Barak river
Hooghly river
- C. Sadiya-Dhubri stretch of the Brahmaputra river
- D. Kollam-Kottapuram stretch of West Coast Canal
and Champakara and Udyogmandal canals
99. Which of the following is NOT an Olympic event?
- A. Rhythmic gymnastics
- B. Artistic gymnastics
- C. Acrobatic gymnastics
- D. Trampoline gymnastics
100. All acids generate _____ gas on reacting with metals.
- A. hydrogen
- B. nitrogen
- C. chlorine
- D. oxygen

Solutions

1. D

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

Iconic = being famous person or thing that people admire and see as a symbol of a particular idea, way of life etc.

E.g.: Perfect marketing strategies are important for any brand to achieve **iconic** status among its customers.

Manageable = possible to deal with or control.

Unimportant = not important.

General = an officer of very high rank in the army or the air force.

Exemplary = providing a good example for people to copy.

E.g.: Our organisation has an **exemplary** record in customer services.

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

2. D

Sol.

Let us understand the meaning of the given words:-

* Willing = (adjective) ready or pleased to help and not needing to be persuaded

* Wills = is an erroneous plural form of "Will".

* Willed = (adjective) used with adjectives to show having the type of will mentioned.

* Will = (noun) a strong and determined desire to do something that you want to do.

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

- * "Willing" is an adjective but we need a noun in the given filler because an article "a" is used before the filler. Thus, option A is incorrect.
- * "Wills" is a plural form of "Will". We need a singular noun in the sentence. Thus, option B is incorrect.
- * "Willed" is an adjective but we need a noun in the given filler because the article "a" is used before the filler. Thus, option C is incorrect.
- * "Will" is an uncountable noun. It means determined desire to do something. Here in the given sentence, it is used as part of idiom "Where there's a will, there's a way". This idiom means if you really want to do something then you will find a way of doing it.

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

Thus the correct sentence will be:

Remember that where there is a will there is a way.

3. A

Sol.

The sentence is grammatically incorrect, and the error lies in **option A**. The error is related to **Subject Verb agreement**.

- * The sentences that begin with empty subjects (like It, There), the verb is used in accordance with the complement.

For example:

There were lights still ablaze as they drove up to the house.

Here, “There” is an empty subject. “Lights” is the complement which is plural in nature. Accordingly, a plural verb “were” is used.

* In the given sentence, “there” is an empty subject. “People” is the complement which is plural in nature. According to the subject verb agreement, a plural verb should be used here. But we have used a singular verb “was”. Thus, plural verb “were” should be used in place of singular verb “was”.

* Hence, “**there were**” is the correct substitution.

Thus, the correct sentence will be:

There were many people who voted for him.

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

4. B

Sol.

Let us understand the meaning of the given words:-

* Couldn't = Contracted form of “could not”.

* Don't = Contracted form of “do not”.

* Won't = Contracted form of “will not”.

* Shan't = Contracted form of “shall not”.

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

* “Couldn't” as a modal verb is used to show the ability. Thus, option A is incorrect.

- * "Won't" as a modal verb is used to show the willingness of someone. Thus, option C is incorrect.
- * "Shan't" as a modal verb is used with "I" and "We" for talking about the future. Thus, option D is incorrect.
- * "Don't" is the contracted form of "do not". It is used in simple present tense when the subject is plural. It is also used with "I" and "you".

Thus, "Don't" becomes the correct word to fill in the blank.

Thus the correct sentence will be:

Going by the current pace of work, I don't think this will finish by Sunday.

5. B

Sol.

Let us understand the meaning of the given words:-

- * Confused = to make someone unable to think clearly or understand something.
- * United = in agreement and working together.
- * Shared = to have, use or experience something at the same time as someone else.
- * Learned = to gain knowledge or skill by studying, from experience, from being taught etc.

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

- * "Confused" is used in context of "not able to think clearly". Thus, option A is incorrect.
- * "Shared" is used in context of "experience something together". Thus, option C is incorrect.

- * "Learned" is used in context of "gain knowledge or skill". Thus, option D is incorrect.
- * "United" is used in context of "working together". Here in the given sentence, it is used to convey that Indian work/live together with one another despite their cultural differences.

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

Thus the correct sentence will be:

In India, people of all religions and castes live together and they are united in spite of cultural differences.

6. A

Sol.

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

- * The structure of infinitive verb: "to + first form of verb".

For example:

He has tried **to play** down his involvement in the affair.

- * In the given sentence, the verb "brought" is used after "to". This is wrong. Thus, the first form "buy" should be used in its place.

- * Hence, "**to buy**" is the correct substitution.

Thus, the correct sentence will be:

Sumit has decided to buy his car for the picnic.

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

7. D

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

Friend = a person you know well and like, and who is not usually a member of your family.

E.g.: She is one of my best friends.

Companion = a person or an animal that travels with you or spends a lot of time with you.

Partner = a person that you are doing an activity with such as dancing, playing a game.

Helper = a person who helps someone to do something.

Foe =an enemy

E.g.: He is unsure whether she is a friend or **foe**.

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

8. B

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

Fowl = a bird that is kept for its meat and eggs, for example a chicken.

E.g.: There are many varieties of **fowls** such as turkeys and ducks.

Dirty = not clean

Bird = a creature that is covered with feathers and has two wings and two legs.

E.g.: **Birds** were singing in the trees.

Mistake = an action or opinion that is not correct.

Unfair = not right or fair according to a set of rules or principles; not treating people equally.

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

9. B

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

Clear = easy to understand OR without any spots or marks

E.g.: The water was so **clear** we could see the bottom of the lake.

Black = having the very darkest colour like coal or the sky at night.

Murky = not clear; dark or dirty with mud or another substance.

E.g.: He gazed into the **murky** depths of the water.

White = having the colour of fresh snow or of milk OR connected with a race of people who have pale skin.

Clean = not dirty.

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

10. C

Sol.

The underlined part of the sentence is grammatically incorrect.

* The underlined part needs correction in helping verb, tense and determiner.

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

For example:

These **shoes have** given me blisters on my heels.

Shoes: Plural subject.

Have: Plural helping verb

In the given sentence, “lockdowns” is a plural subject, but we have used the singular helping verb “has”. This is wrong. As per subject verb agreement, the plural helping verb “have” should be used here.

* The present perfect tense has the structure: “Has/Have + third form of verb”

In the given sentence, we have used first form of verb “give” after the helping verb. This is wrong. Thus, the third form of verb “given” should be used in place of “give”.

* “Their” as a determiner is used for showing possessions belonging to plural nouns. Whereas, “My” as a determiner is used for showing possession belonging to speaker i.e. “I”

For example:

I try to do my job to the best of **my** ability to attract clients.

Local farmers are able to make a decent living by selling **their** produce.

* In the given sentence, “nostalgic memories” belongs to “parents and grandparents” mentioned before the underlined part. “Parents and grandparents” are plural. Thus, “their” should be used to show their possession over “nostalgic memories”.

* Hence, “**have given, of their**” is the correct substitution.

Thus, the correct sentence will be:

The lockdowns have given many parents and grandparents the opportunity to share some of their nostalgic memories with their children and grandchildren.

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

11. B

Sol.

Immigrant: a person who has come to live permanently in a country that is not their own.

Emigrant: a person who leaves their country to live permanently in another.

Foreigner: a person who comes from a different country.

Citizen: a person who has the legal right to belong to a particular country.

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

12. B

Sol.

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

* The structure of the present perfect tense: “has/have + third form of verb”.

For example:

This area **has become** a breeding ground for violent crimes.

* The given sentence is set in the present tense because the verb “has started” is used. But we have used the past perfect tense to explain the effect of something that has happened in present perfect tense. This gives the wrong sense to the meaning of the sentence. Thus, helping verb “has” should be used in place of “had”.

* Hence, “**it has once again**” is the correct substitution.

Thus, the correct sentence will be:

Since India has started doing well in hockey it has once again become a popular sport.

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

13. B

Sol.

The idiom “**Raining cats and dogs**” means raining heavily.

Example: You are advised to wear a raincoat because it is **raining cats and dogs** outside.

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

14. A

Sol.

Option A has incorrectly spelt word.

“Amenable” is the correct spelling of the incorrect word “Amanable”. It means easy to control; willing to be influenced by someone/something.

The meaning of other words are:

Amicable: done or achieved in a polite or friendly way and without arguing.

Amiable: pleasant; friendly and easy to like.

Approachable: friendly and easy to talk to' easy to understand.

15. B

Sol.

The underlined part of the sentence is grammatically incorrect.

- * The underlined part needs correction in tense and in the phrasal verb.
- * “Did not” is used in simple past tense.

For example:

He **did not** even acknowledge the question.

- * The given sentence is set in past tense because the second form of verb “rang” is used. But the underlined part contains the verb structure associated with the simple present tense which is wrong. Thus, the verb structure of the simple past tense “did not” should be used in place of “does not”.
- * Also, “pick up” is a phrasal verb and it means to answer a phone. “Pick out” is also a phrasal verb but it means to discover or recognize something after careful study. The meaning conveyed by “Pick up” is in line with the meaning of the given sentence. Thus, preposition “up” should be used in place of “out”.
- * Hence, “**didn't pick up**” is the correct substitution.

Thus, the correct sentence will be:

I rang up an old friend of mine but she didn't pick up the phone.

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

16. B

Sol.

Option B has incorrectly spelt word.

“Fabulous” is the correct spelling of the incorrect word “Fabulus”. It means extremely good.

The meaning of other words are:

Fasting: to eat little or no food for a period of time, especially for religious or medical reasons.

Further: more; additional

Farther: at or to a greater distance in space or time.

17. A

Sol.

The underlined part of the sentence is grammatically correct.

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

18. D

Sol.

Let us understand the meaning of the given words:-

* Happy = feeling or showing pleasure.

* Jovial = very cheerful and friendly.

* Lenient = not as strict as expected when punishing someone or when making sure that rules are obeyed.

* Strict = demanding that rules should be obeyed.

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

* "Happy" is used in context of "showing pleasure". Thus, option A is incorrect.

* "Jovial" is used in context of "friendly". Thus, option B is incorrect.

* "Lenient" is used in context of "not as strict". Thus, option C is incorrect.

* "Strict" is used in context of "demanding that rules should be obeyed". Here in the given sentence, it is used to qualify the nature of teacher. The second part clearly mentions that the teacher doesn't let anyone play pranks in her class.

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

Thus the correct sentence will be:

The teacher was very strict. She never let anyone play pranks in her class.

19. D

Sol.

The idiom "**How time flies!**" means time seems to pass very quickly.

Example: **How time flies!** It feels like we have just arrived at this place.

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

20. C

Sol.

Agoraphobia: a fear of being in public places where there are many other people.

Aquaphobia: a fear of water.

Claustrophobia: a fear of closed spaces.

Acrophobia: a fear of heights.

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

21. A

Sol.

The given passage is about "**Computer programmer**".

“Accepted” means to take willingly something that is offered. Thus, option B is wrong.

“Known” means known about, especially by a lot of people. Thus, option C is wrong.

“Said” means to speak or tell someone/something using words. Thus, option D is wrong.

“Called” means to give someone a particular name; to use a particular name or title. In the given sentence, title of “software developer” is given to a “computer programmer”.

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

22. D

Sol.

The given passage is about **“Computer programmer”**.

“Were” is a plural helping verb and it is used in past tense. Thus, option A is wrong.

“Has” is a singular helping verb and it is used in present perfect tense. It is used to show possession (when used as a main verb). Thus, option B is wrong.

“Was” is a singular helping verb and it is used in past tense. Thus, option C is wrong.

“Is” is a singular helping verb and it is used in simple present tense. Here in the given sentence, it is used for the singular subject “a coder”.

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

23. A

Sol.

The given passage is about **“Computer programmer”**.

“Know” means to have information in your mind as a result of experience. Thus, option B is wrong.

“Mean” means to have something as a meaning in the same or another language. Thus, option C is wrong.

“Specify” means to state that something especially by giving an exact measurement, time, etc. Thus, option D is wrong.

“Refer” means to describe or be connected to someone/something. In the given sentence, “computer programmer” is being connected to “specialist in the area of computers.”

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

24. C

Sol.

The given passage is about “**Computer programmer**”.

“Whom” is the objective case of “Who”. Thus, option A is wrong.

“That” as a relative pronoun is used for nouns that are specified. Thus, option B is wrong.

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

“Who” as a relative pronoun is used for persons. Here in the given sentence, it refers to person “generalist”.

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

25. A

Sol.

The given passage is about “**Computer programmer**”.

“Display at” means to put something in a place where people can see it easily. Thus, option B is wrong.

“Study with” means to spend time learning with someone. Thus, option C is wrong.

“Work of” means to do something that involves physical or mental effort, especially as part of a job. Preposition “of” is not used with verb “work”. Thus, option D is wrong.

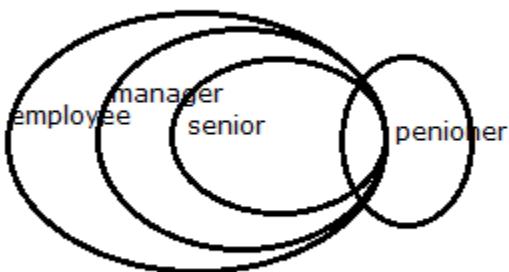
Preposition “with” is used with verb “work”. It is used to show in connection with something. In the given sentence, it refers to work related to “web programming languages”. Thus, “work

with" is correct.

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

26. C

Sol. The pictorial representation as per the statements is



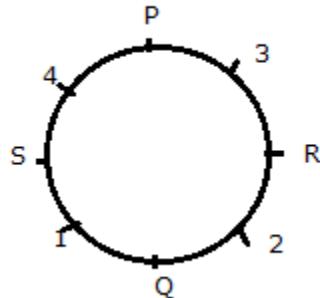
Conclusions:

- I. Some pensioners are employees- True, as all seniors are managers and all managers are employees and some seniors are pensioners so some pensioners are also employees.
- II. Some employees are pensioners - True, as all seniors are managers and all managers are employees and some seniors are pensioners so some employees are also pensioners.
- III. All employees are seniors – False, as it is not a definite case.

Hence, option C is the correct answer.

27. C

Sol. The possible sitting arrangement of girls and boys is

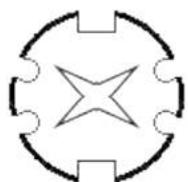


So, 3 is sitting between P and R.

Hence, option C is the correct answer.

28. A

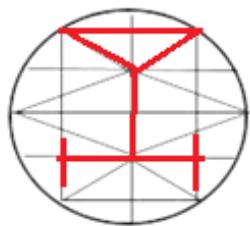
Sol. When paper is folded and then cut as per the instruction given in the questions, pattern formed after unfolding the paper is given below



Hence, option A is the correct answer.

29. A

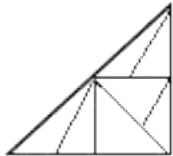
Sol. The given pattern is embedded in the figure given below



Hence, option A is the correct answer.

30. C

Sol. The figure given below when placed in the blank place will complete the given figure.



Hence, option C is the correct answer.

31. C

Sol. The logic here is that number obtain after multiplication of first and third number is divisible by middle number

$$\{12, 18, 6\} = 12 \times 6 = 72 \text{ is divisible by } 18$$

$$\{18, 9, 8\} = 18 \times 8 = 144 \text{ is divisible by } 9$$

$$\{9, 14, 11\} = 11 \times 9 = 99 \text{ not divisible by } 14$$

$$\{16, 12, 8\} = 16 \times 8 = 128 \text{ not divisible by } 12$$

$$\{15, 13, 11\} = 15 \times 11 = 165 \text{ not divisible by } 13$$

Hence, option C is the correct answer.

32. C

Sol. As water is filter before drinking similarly film is censor before watching.

Hence, option C is the correct answer.

33. D

Sol.

N -1 = M	C-1 =B
A +2 = C	R+2 =T
T -3 =Q	E -3 =B
U +4 =Y	S+4 =W
R -5 = M	T-5 =O
E +6 =K	

Hence, option D is the correct answer.

34. B

Sol. This type of questions are solved by hit and trial method

$$12 + 3 \times 2 - 4 = 10$$

Signs – and + are interchanged,

$$12 - 3 \times 2 + 4 = 10$$

Apply BODMAS

$$12-6+4=10$$

$$16-6=10$$

$$10=10$$

Hence, option B is the correct answer.

35. C

Sol. Ophthalmology is branch of medicine used to treat Cataract, similarly Psychology is used to treat mental disorder Neurosis.

Hence, option C is the correct answer.

36. C

Sol. The arrangement of books as per the question is

Yellow
Blue
Green
Violet
Black
Red
Orange

So, violet book is in the middle.

Hence, option C is the correct answer.

37. A

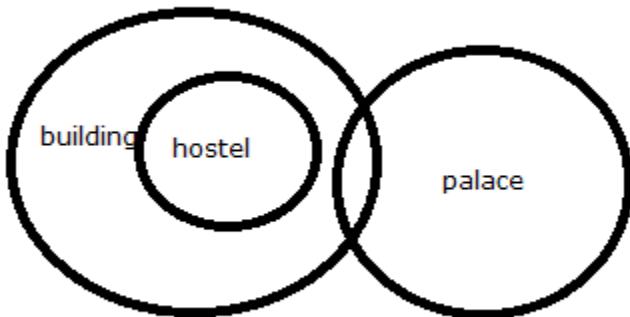
Sol.

B + 6 = H	P + 6 = V	D + 6 = J
D + 7 = K	R + 7 = Y	F + 7 = M
F + 8 = N	T + 8 = B	H + 8 = P

Hence, option A is the correct answer.

38. A

Sol.



Conclusions:

- I. Some palaces are hostels- may be true as all hostels are buildings and some buildings are palaces, so it may be possible that hostels which are buildings, may be palaces.
- II. No palace is a hostel- may be true, as all hostels are buildings and some buildings are palaces, so it may be possible that hostels which are buildings may not be palaces.

So, either conclusion I or II follow.

Hence, option A is the correct answer.

39. A

Sol. The logic is as follows –

The vowels are coded as the place value of their reverse letters and the place values of consonants are considered as is.

The sum of these place values gives us the code.

As,

$$P (11) + E (22) + A (26) + R (18) + S (19) = 101$$

Similarly,

$$C (3) + A (26) + T (20) = 49$$

Thus,

$$M (13) + E (22) + A (26) + L (12) = 73$$

Hence, option A is the correct answer.

40. C

Sol. The questions is solved as per the given table.

P=16=1+6=7	Y=25=2+5=7
A=1=1+0=1	O=15=1+5=6
Y=25=2+5=7	U=22=2+1=3
M=13=1+3=4	N=14=1+4=5
E=5=5+0=5	G=7=7+0=7
N=14=1+4=5	E=5=5+0=5
T=20=2+0=2	R=18=1+8=9

Hence, option C is the correct answer.

41. B

Sol. SPIKE JINGO
QRHDL JIMNH
RQHLD IJMHN

S-1=R	J-1=I
P+1=Q	I+1=J
I-1=H	N-1=M
K+1=L	G+1=H
E-1=D	O-1=N

Hence, option C is the correct answer.

42. C

Sol. The logic here is that multiply the first number by a number and add the same number
Second number = first number *a+a

$$11*6+6=66+6=72$$

$$9*5+5=50 \text{ not equal to } 48$$

$$3*2+2=8 \text{ not equal to } 7$$

$$7*4+4=32 =32$$

$$15*6+6=90+6=96 \text{ not equal to } 95$$

Hence, option C is the correct answer.

43. C

Sol.

The logic follow here in the series is Next number = some of two previous number +1

2+1=3
3+2+1=6
6+3+1=10
10+6+1=17
17+10+1=28

Hence, option C is the correct answer.

44. C

Sol. 3, 7, 22, 45, 136, ?, 820

3*2+1=7
7*3+1=22
22*2+1=45
45*3+1=136
136*2+1=273
273*3+1=820

Hence, option C is the correct answer.

45. D

Sol. Interchange the position of neighbouring letter with each other

HOARDING= OHRAIDGN

Similarly TREATISE= RTAEITES

Now

O-1=N	R-1=Q
H-1=G	T-1=S
R-1=Q	A-1=Z
A-1=Z	E-1=D
I-1=H	I-1=H
D-C=C	T-1=S
G-1=F	E-1=D
SSN-1=M	S-1=R

Hence, option C is the correct answer.

46. D

Sol. Interchange – and +

$$8 - 6 \times 4 \div 2 + 10 = 6$$

Apply BODMAS

$$8 - 6 \times 2 + 10 = 6$$

$$8 - 12 + 10 = 6$$

$$18 - 12 = 6$$

$$6 = 6$$

Hence, option D is the correct answer.

47. C

Sol. The possible arrangement of persons as per the question is

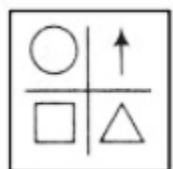
RSPTVQU

So, U is the last person in the queue.

Hence, option C is the correct answer.

48. D

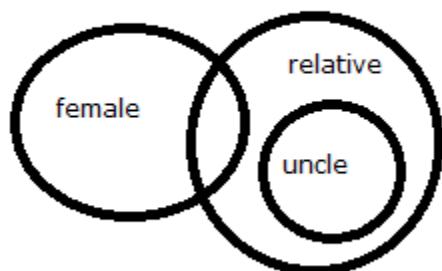
Sol. The figure that will replace the question mark is given below. The logic is that each internal figure moves one step clockwise and then diagonal.



Hence, option C is the correct answer.

49. A

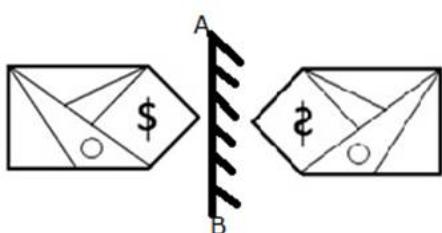
Sol. Female can be relative but not uncle
Relative may include female and uncle.
Uncle can be relative only not female.



Hence, option A is the correct answer.

50. A

Sol. The image formed when mirror is placed is given below.



Hence, option C is the correct answer.

51. B

Sol. Let radius of circle = x unit

$$\text{Area of circle} = \pi x^2 \text{ unit}^2$$

Radius of a circle is increased by 23%

$$\text{Resultant radius of circle} = x + \frac{23x}{100} = \frac{123x}{100} \text{ unit}$$

$$\text{Resultant area of circle} = \pi \left(\frac{123x}{100} \right)^2 \text{ unit}^2$$

Percentage increase in area =

$$\begin{aligned} \frac{\pi \left(\frac{123x}{100} \right)^2 - \pi x^2}{\pi x^2} \times 100 &= \frac{\pi x^2 \left[\frac{15129}{10000} - 1 \right]}{\pi x^2} \times 100 = \frac{15129 - 10000}{10000} \times 100 \\ &= 51.29\% \end{aligned}$$

52. C

Sol. Average of the number of boys who appeared in 2011, 2013 and 2015 =

$$\frac{225+300+375}{3} = \frac{900}{3} = 300$$

Number of girls who appeared in 2014 = 320

$$\text{Required percentage} = \frac{320-300}{320} \times 100 = \frac{20}{320} \times 100 = 6.25\%$$

53. D

Sol. Total number of girls who appeared in 2012, 2013, 2014 and 2015 = $325+350+320+325 = 1320$

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

$$\text{Required percentage} = \frac{1430 - 1320}{1430} \times 100 = \frac{11000}{1430} = 7.7\%$$

54. D

Sol. Total number of girls who appeared in 2012 and 2015 = 325 + 325 = 650

Total number of boys who appeared for the class X examination in 2012 and 2013 = 250 + 300 = 550

Required ratio = 650 : 550 = 13 : 11

55. B

Sol. A sum of money is distributed among P, Q, R and S in the ratio 3 : 4 : 5 : 6

Let share pf P = 3x

Share of Q = 4x

Share of R = 5x

Share of S = 6x

R gets ₹500 more than P.

$$\Rightarrow 5x - 3x = \text{Rs. } 500$$

$$\Rightarrow 2x = \text{Rs. } 500$$

$$\Rightarrow x = \text{Rs. } 250$$

Sum of all their shares (in ₹) = $3x + 4x + 5x + 6x = 18x = \text{Rs. } 4500$

56. C

Sol. A car travels a distance of x km at a speed of $5\frac{5}{9}$ m/sec and returns at 5 m/sec to the starting point.

$$\Rightarrow \frac{x}{\frac{50}{9} \times \frac{18}{5}} + \frac{x}{5 \times \frac{18}{5}} = \frac{38}{5}$$

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

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

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

$$\Rightarrow x = \frac{38}{5} \times \frac{180}{19} = 72 \text{ km}$$

Now, $x + 3 = 72 + 3 = 75$

57. D

Sol. Ratio of the speeds of two trains is 5 : 8.

Let speed of first train = $5x$

Speed of second train = $8x$

Second train runs 600 km in 4 hours.

$$\text{Speed of second train} = \frac{600}{4} = 150 \text{ km/hr}$$

$$\Rightarrow 8x = 150$$

$$\Rightarrow x = \frac{150}{8}$$

$$\Rightarrow 5x = \frac{150}{8} \times 5 = 93.75 \text{ km/hr}$$

Speed of the first train (in km/h) = 93.75 km/hr

58. D

Sol. Total number of students in class A and B = 72

The number of students in A is 40% more than that in B.

$$\Rightarrow A = B + \frac{40B}{100} = \frac{7B}{5}$$

$$\text{Now, } A + B = 72$$

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

$$\Rightarrow 12B = 360$$

$$\Rightarrow B = 30$$

$$\text{Hence, } A = 72 - B = 72 - 30 = 42$$

Average marks of all the students in A and B is 58.

Sum of marks of all the students in A and B = $58 \times 72 = 4176$

Let average marks of students in A = x

Let average marks of students in B = y

The average marks of students in B are 50% more than that of students in A.

$$y = x + \frac{50x}{100} = \frac{3}{2}x$$

Now, $42x + 30y = 4176$

$$\begin{aligned}\Rightarrow 42x + 30\left(\frac{3}{2}x\right) &= 4176 \\ \Rightarrow 87x &= 4176 \\ \Rightarrow x &= 48\end{aligned}$$

Hence, average marks of students in A = 48

59. D

Sol. Let x, y and z are three positive numbers.

Average of any two of them is added to the third number, the resulting sums are 154, 148 and 132.

$$x + \frac{y+z}{2} = 154 \dots\dots\dots(1)$$

$$y + \frac{x+z}{2} = 148 \dots\dots\dots(2)$$

$$z + \frac{x+y}{2} = 132 \dots\dots\dots(3)$$

Adding (1) , (2) and (3)

$$\begin{aligned}\Rightarrow (x + y + z) + \frac{(2x+2y+2z)}{2} &= 434 \\ \Rightarrow 2(x + y + z) &= 434 \\ \Rightarrow (x + y + z) &= 217\end{aligned}$$

Hence, sum of the original three numbers = 217

60. B

Sol. A sum of money doubled itself at a certain rate of compound interest in 10 years.

Let principal = Rs. P

Amount = Rs. 2P

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

$$\Rightarrow 2P = P \left(1 + \frac{\text{Rate}}{100}\right)^{10}$$

Let same sum of money become eight times in x years

$$\Rightarrow 8P = P \left(1 + \frac{\text{Rate}}{100}\right)^x$$

From (1)

$$\Rightarrow 8 = (2)^{\frac{x}{10}}$$

$$\Rightarrow 2^3 = (2)^{\frac{x}{10}}$$

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

$$\Rightarrow x = 30$$

Hence, same sum of money become eight times in 30 years.

61. A

Sol.

If the annual rate of simple interest increases from 8% to $12\frac{1}{2}\%$, a person's yearly income increased by ₹639.

Let principal amount = Rs. P

$$\Rightarrow \left(\frac{25}{2} \% - 8 \% \right) \text{ of } P = 639$$

$$\Rightarrow \left(\frac{9}{2} \% \right) \text{ of } P = 639$$

$$\Rightarrow P = 639 \times \frac{200}{9} = \text{Rs. } 14200$$

Principal amount = Rs. 14200

62. D

Sol. 'A' can complete 40% of a work in 6 days.

Number of days taken by A to complete the work = $\frac{100}{40} \times 6 = 15$ days

'B' can complete the work in $7\frac{1}{2}$ days.

$$\Rightarrow 7\frac{1}{2} = \frac{15}{2} \text{ days}$$

Let total work = LCM (15,15) = 15 unit

Efficiency of A = $\frac{15}{15} = 1$ unit/day

Efficiency of B = $\frac{15}{\frac{15}{2}} = 2$ unit/day

Efficiency of A and B together = $1 + 2 = 3$ unit/day

Number of days taken by A and B together to complete the whole work = $\frac{15}{3} = 5$ days

63. D

Sol. Marked price of an article = ₹5,450

$$\text{Discount} = 5450 \times \frac{15}{100} = \text{Rs. } 817.5$$

Selling price of an article = ₹5,450 – 817.5 = Rs. 4632.5

Profit = 15%

$$\text{Cost price} = \frac{4632.5}{\frac{100}{(100+15)}} = \text{Rs. } 4028.26 \approx \text{Rs. } 4028$$

64. B

Sol. When an article is sold for ₹388, there is a loss of 3%.

$$\text{Cost price of article} = \frac{388}{\frac{100}{(100-3)}} = \text{Rs. } 400$$

If Gain = 18%

$$\text{Selling price} = \frac{400}{\frac{100}{(100+18)}} = \text{Rs. } 472$$

65. C

Sol. Sum of the cost prices of two bikes = ₹50,000

Let cost price of first bike = Rs. x

Cost price of second bike = Rs. (50000 – x)

The first bike was sold at a profit of 20% and second bike at a loss of 20%.

$$\text{Selling price of first bike} = x \times \frac{120}{(100)} = \text{Rs. } 1.2x$$

$$\text{Selling price of second bike} = \text{Rs. } (50000 - x) \times \frac{80}{(100)} = \text{Rs. } (40000 - 0.8x)$$

Selling prices are the same

$$\Rightarrow 1.2x = (40000 - 0.8x)$$

$$\Rightarrow 2x = 40000$$

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

Cost price (in ₹) of the second bike = $50000 - 20000 = \text{Rs. } 30000$

66. B

$$\text{Sol. } 0.2 \div 0.025 + 39 + 0.92 \div 0.2 \times 5 - 4.9 \div 0.07$$

Using BODMAS :

$$\Rightarrow 8 + 39 + 4.6 \times 5 - 70$$

$$\Rightarrow 47 + 23 - 70 = 0$$

67. B

Sol. HCF of two numbers is 6 and LCM of the same two numbers is 54.

Product of two numbers = HCF × LCM

$$\Rightarrow \text{Product of two numbers} = 6 \times 54 = 324$$

$$\text{Square root of the product of these numbers} = \sqrt{324} = 18$$

68. A

$$\text{Sol. } \frac{\frac{3}{7} + 1\frac{2}{3} \times 6 - \left(3\frac{1}{2} \div \frac{3}{5} \text{ of } \frac{7}{9} \right) \text{ of } \frac{2}{3}}{\frac{1}{7} \left(4 \div \frac{1}{5} \text{ of } 10 \right) - 3}$$

Using BODMAS:

$$\begin{aligned} & \frac{\frac{3}{7} + \frac{5}{3} \times 6 - \left(\frac{7}{2} \div \frac{3}{5} \text{ of } \frac{7}{9} \right) \text{ of } \frac{2}{3}}{\frac{1}{7} \left(4 \div \frac{1}{5} \text{ of } 10 \right) - 3} \\ \Rightarrow & \frac{\frac{3}{7} + \frac{5}{3} \times 6 - \left(\frac{7}{2} \div \frac{21}{45} \right) \text{ of } \frac{2}{3}}{\frac{1}{7} \left(4 \div 2 \right) - 3} \\ \Rightarrow & \frac{\frac{3}{7} + \frac{5}{3} \times 6 - \left(\frac{7}{2} \div \frac{7}{15} \right) \text{ of } \frac{2}{3}}{\frac{2}{7} - 3} \\ \Rightarrow & \frac{\frac{3}{7} + \frac{5}{3} \times 6 - \left(\frac{15}{2} \right) \text{ of } \frac{2}{3}}{\frac{2}{7} - 3} \\ \Rightarrow & \frac{\frac{3}{7} + 10 - (5)}{\frac{2}{7} - 3} \\ \Rightarrow & \frac{\frac{3}{7} + 5}{\frac{19}{7}} \\ \Rightarrow & \frac{\frac{38}{7}}{\frac{19}{7}} = -2 \end{aligned}$$

69. C

Sol. When x is subtracted from each of 21, 22, 60 and 64, the numbers so obtained in this order are in proportion.

$\Rightarrow (21 - x), (22 - x), (60 - x)$ and $(64 - x)$ are in proportion.

$$\begin{aligned}\Rightarrow (21-x)(64-x) &= (22-x)(60-x) \\ \Rightarrow 1344 - 21x - 64x + x^2 &= 1320 - 22x - 60x + x^2 \\ \Rightarrow 1344 - 21x - 64x &= 1320 - 22x - 60x \\ \Rightarrow 3x &= 24 \\ \Rightarrow x &= 8\end{aligned}$$

Now, mean proportional between $(x+4)$ and $\left(\frac{x}{2}-1\right)$ =

$$\sqrt{(x+4)\left(\frac{x}{2}-1\right)} = \sqrt{(8+4)\left(\frac{8}{2}-1\right)} = \sqrt{12 \times 3} = 6$$

70. C

Sol. The ratio of boys and girls in a school is 35 : 39.

Let number of boys in school = $35x$

Number of girls in school = $39x$

Average of boys and girls in the school is 740.

Total number of students in school = $740 \times 2 = 1480$

$$\begin{aligned}\Rightarrow 35x + 39x &= 1480 \\ \Rightarrow 74x &= 1480 \\ \Rightarrow x &= 20\end{aligned}$$

Hence, number of boys in the school = $35x = 35 \times 20 = 700$

71. B

Sol. 'A' can complete a work in 15 days and 'B' can complete the same work in 20 days.

Let total work = LCM (15, 20) = 60 unit

$$\text{Efficiency of A} = \frac{60}{15} = 4 \text{ unit/day}$$

$$\text{Efficiency of B} = \frac{60}{20} = 3 \text{ unit/day}$$

Number of days taken by A and B to complete the whole work together = $\frac{60}{7}$ days

Number of days taken by A and B to complete 70% of work together = $\frac{70}{100} \times \frac{60}{7} = 6$ days

72. D

Sol. A raw data is in ascending order, i.e. 3, 4, 7, x, x + 1, 12, 13, 15.

Total number of terms (n)= 8

$$\text{Median} = \frac{\left(\frac{n}{2}\right)^{\text{th}} \text{term} + \left(\frac{n}{2}+1\right)^{\text{th}} \text{term}}{2} = \frac{\left(\frac{8}{2}\right)^{\text{th}} \text{term} + \left(\frac{8}{2}+1\right)^{\text{th}} \text{term}}{2} = \frac{(4)^{\text{th}} \text{term} + (5)^{\text{th}} \text{term}}{2} = \frac{x+x+1}{2} = \frac{2x+1}{2}$$

$$\text{Finally, } \frac{2x+1}{2} = 9.5$$

$$\Rightarrow 2x + 1 = 19$$

$$\Rightarrow 2x = 18$$

$$\Rightarrow x = 9$$

73. D

Sol. A tank is 25 m long, 12 m wide and 6 m deep.

$$\text{Surface area of its walls and bottom} = 2(l + b)h + lb = \\ 2(25 + 12)6 + 25 \times 12 = 444 + 300 = 744 \text{ m}^2$$

Cost (in ₹) of plastering its walls and bottom at ₹10 per m^2 = $744 \times 10 = \text{Rs. } 7440$

74. C

Sol. Let total number of voters = 100

60% of the voters are males and the rest are females.

$$\text{Number of male voters} = \frac{60}{100} \times 100 = 60$$

$$\text{Number of female voters} = 100 - 60 = 40$$

40% of the males are illiterate and 25% of the females are literate.

$$\text{Number of illiterate male voters} = \frac{40}{100} \times 60 = 24$$

$$\text{Number of literate female voters} = \frac{25}{100} \times 40 = 10$$

$$\text{Required percentage} = \frac{24-10}{10} \times 100 = 140\%$$

75. C

Sol. Let length of rectangle = 100 unit

Length of a rectangle is increased by 40%.

$$\text{Resultant length of rectangle} = 100 + 100 \times \frac{40}{100} = 140 \text{ unit}$$

$$\text{Ratio of length of rectangle} = 100 : 140 = 5 : 7$$

If area of rectangle is constant then length of rectangle is inversely proportional to the width of rectangle.

$$\text{Ratio of width of rectangle} = 7 : 5$$

$$\text{Required percentage} = \frac{7-5}{7} \times 100 = 28.6\%$$

76. D

Sol. * The Maintenance and Welfare of Parents and Senior Citizens Act, 2007 provides efficient provisions for the maintenance and welfare of the senior citizen.

* This act was initiated by Ministry of Social Justice and Empowerment, Government of India.

* Section 2(a) of the Act provides for the definition of "children" which includes son, daughter, granddaughter and grandson as "children".

77. A

Sol. * The river Godavari is the largest of the peninsular rivers of India.

* Godavari rises at an elevation of 1,067 m in the Western Ghats near Thriambak Hills in the Nashik district of Maharashtra.

* About 50% of the Godavari Basin lies in Maharashtra.

* The Godavari basin is extending over the states of Maharashtra (48.6%), Telangana (20% approx.), Madhya Pradesh (10.0%), Andhra Pradesh (3.4% approx.), Chhattisgarh (10.9%), Odisha (5.7%) and Karnataka (1.4%).

* The Godavari basin falls in Deccan plateau.

78. D

Sol. * In July 2020, Ben Stokes was described as "Mr. Incredible" by the England Test cricket captain Joe Root.

* He was named the Wisden Leading Cricketer in the World in 2019 and 2020.

* He won the ICC Award for Best Men's Cricketer in 2019.

* He was also named as the 2019 BBC Sports Personality of the Year.

79. B

Sol. * The Oudh Kisan Sabha was formed on 17 October 1920 AD.

* It was founded by Baba Ram Chandra in Pratapgarh.

* It was established to oppose the zamindars and talukdars who demanded excessive taxes and rent.

* Baba Ram Chandra was an Indian trade unionist.

* In 1919 he led the first peasant protest against the landlords.

80. C

Sol. * "Boy: Tales of Childhood" is an autobiographical book by British writer Roald Dahl.

* This book describes his life from birth until leaving school.

* Roald Dahl was a British novelist, short-story writer, poet and screenwriter.

81. D

Sol. * The freedom of trade, commerce, and intercourse is provided under Part XIII of the Indian Constitution in Articles 301 to 307.

- * Part XX of the constitution deals with Amendment of Constitution.
- * Part X of the constitution deals with Scheduled and Tribal Areas.
- * Part XV of the constitution deals with Elections (including Election Commission).

82. B

Sol. * "Rathwa ni Gher" is a dance performed on the occasion of Holi by the Rathwa tribe of Gujarat.

- * It is popular in places like Chota Udaypur, Kanwant and Pavijetpur Talukas (sub divisions) of the Vadodara district, and Jambughoda, Narukot, and Ghoghamba Talukas (sub divisions) of Panchmahal district of the south-eastern parts of Gujarat.
- * Rathwa tribes are a distinct tribe known for their most prevalent and characteristic art tradition, Pithoro wall paintings.
- * Traditional dance of this tribe is known as Chuum Jhum.

83. A

Sol. * Taj Mahotsav is celebrated from 18th to 27th February every year at Shilpgram near the Eastern gate of "Taj Mahal".

- * It is organized by the Department of Tourism, Government of India.
- * Taj Mahotsav is mainly dedicated to the promotion of country's rich art and craft, culture, cuisine, dance and music.
- * The Taj Mahal was designated as a UNESCO World Heritage Site in 1983.
- * Taj Mahal is located on the banks of River Yamuna in Agra (Uttar Pradesh).
- * It was built by the Mughal Emperor Shah Jahan as a memorial for his third wife, Mumtaz Mahal.

84. B

Sol. * India's average exponential growth rate (population) for the period 2001-2011 was 1.64% per annum.

- * The population of India has increased by about 181.46 million during the decade 2001-2011.
- * According to census 2011, Literacy rate has increased by 9.21%.
- * Male literacy is 82.14% and that of female is 65.46%.

* The responsibility of conducting the decennial Census rests with the Office of the Registrar General and Census Commissioner, India under Ministry of Home Affairs, Government of India.

* The Registrar General and Census Commissioner of India was founded in 1961.

85. D

Sol. * Kanakakkunnu Palace is situated in Thiruvananthapuram, Kerala.

* It is India's first digital garden.

* It was created by Akhilesh S. V. Nair and A. Gangaprasad, University of Kerala, Department of Botany.

* Chowmahalla Palace, Amber Palace (Amer Fort or Amber Fort) and Ujjayanta Palace are located in Hyderabad, Telangana, Jaipur, Rajasthan and Agartala, Tripura respectively.

86. D

Sol. * Madan Mohan Malaviya was credited with popularizing the slogan Satyameva Jayate (the truth alone shall triumph).

* He was awarded the Bharat Ratna in 2014.

* He served as the president of the Indian National Congress four times, between 1909 and 1933.

* Satyameva Jayate is a part of a mantra from the Hindu scripture Mundaka Upanishad.

* It was adopted as the national motto of India on 26 January 1950.

87. D

Sol. * Maharashtra recorded the highest GST collection for December at Rs 16,530 crore, followed by Karnataka (Rs 6,886 crore) and Tamil Nadu (Rs 6,422 crore) in December 2019.

* Maharashtra's GST collections are the highest in the country, and it is the main revenue earner for the state government.

* Goods and Services Tax (GST) is an indirect tax.

* Uddhav Thackeray is the 19th and current Chief Minister of Maharashtra.

* Bhagat Singh Koshyari is the 22nd and current Governor of Maharashtra.

88. D

- Sol. * Rajendra Singh of India was awarded the Stockholm Water Prize on August 26, 2015.
* He was awarded for his innovative water restoration efforts and extraordinary courage to empower communities in Indian villages.
* He was awarded the Ramon Magsaysay award in 2001.
* The Stockholm Water Prize is a global award.
* It was founded in 1991.
* It is presented annually by the Stockholm International Water Institute (SIWI).
* The Stockholm Water Prize comprises a cash prize of USD 150,000 and a specially designed sculpture.

89. D

- Sol. * Hypothalamus is not a part of the hind-brain.
* It is a part of the brain that has a vital role in controlling many bodily functions including the release of hormones from the pituitary gland.
* There are three main parts of the hindbrain - pons, cerebellum, and medulla oblongata.

90. D

- Sol. * Lala Lajpat Rai was popularly known as Punjab Kesari.
* He was one of the three members of the Lal Bal Pal triumvirate.
* In 1928, Lala Lajpat Rai participated in a demonstration against the Simon Commission, during which he was badly injured in the lathi-charge and finally died on 17 November 1928.
* The Simon Commission was constituted by the British Government for Indian constitutional reform in 1927.

91. B

- Sol. * Cholera is an infectious disease caused by the bacteria Vibrio cholerae.
* It is spread mostly by unsafe water and unsafe food.
* The primary symptoms of cholera are profuse diarrhea and vomiting.

92. C

- Sol. * Option "C" is incorrect.
* The liver is located in the upper right-hand portion of the abdominal cavity, beneath the diaphragm, and on top of the stomach, right kidney, and intestines.

- * The liver is the largest gland in the body.
- * It is reddish brown in colour.

93. B

- Sol. * The 'Clean Note Policy' was announced by the Reserve Bank of India in the year in 1999.
* It was announced by the then Governor of RBI Dr. Bimal Jalan in January 1999.
* The objective of the Reserve Bank's Clean Note Policy is to give the citizens good quality currency notes and coins while the soiled notes are withdrawn out of circulation.
* In 2002, under the clean note policy, RBI advised banks to stop stapling currency notes.

94. D

- Sol. * The slogan "Do or Die" was given by Mahatma Gandhi during the "Quit India Movement" on 8 August 1942.
* "Quit India Movement" is also known as August Kranti Movement.
* It was launched at the Bombay session of the All India Congress Committee on August 8, 1942.
* After the start of the "Quit India Movement", several Congress leaders including Jawaharlal Nehru, Sardar Vallabhbhai Patel, Abul Kalam Azad and Mahatma Gandhi were imprisoned for sedition.

95. B

- Sol. * The absolute refractive index of diamond is 2.42.
* The refractive index for air, on average, is approximately 1.0003.
* The refractive index of water is 1.33.
* The refractive index of crown glass and flint glass are 1.52 and 1.65 respectively.

96. A

- Sol. * Platform for Effective Enforcement for No Child Labour (PENCIL) had been launched by the Ministry of Labour and Employment, Government of India.
* It was launched by the Union Minister Rajnath Singh on September 26, 2017.
* The PENCIL is an electronic platform that aims at involving Centre, State, District, Governments, civil society and the general public in achieving the target of child labour free society.

97. A

Sol. * Tawa Dam is located at Hoshangabad District in Madhya Pradesh.

* This large reservoir is located on the Tawa River.

* Tawa Reservoir forms the western boundary of Satpura National Park and Bori Wildlife Sanctuary.

* Ujjani, Koyna and Isapur dams are located in Maharashtra.

98. A

Sol. * The National Waterway 1 (NW-1) runs from Prayagraj in Uttar Pradesh to Haldia in West Bengal via Patna and Bhagalpur in Bihar across the Ganges river.

* It was declared as a waterway in October 1986.

* It is 1,620 km long, making it the longest waterway in India.

* There are 111 officially notified Inland National Waterways (NWs) in India.

99. C

Sol. * Acrobatic gymnastics is not an Olympic event.

* Gymnastics at the 2020 Summer Olympics in Tokyo was held in three categories: artistic gymnastics, rhythmic gymnastics and trampolining.

100. A

Sol. * Metals react with acids to give hydrogen gas and form metal salts.

* This is the general word equation for the reaction: metal + acid → salt + hydrogen.

* Hence Option A is correct answer.

Mock Test Solutions in Hindi

Questions

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

ICONIC

- | | |
|---------------|----------------|
| A. Manageable | B. Unimportant |
| C. General | D. Exemplary |

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

Remember that where there is a _____ there is a way.

- A. willing
 - B. wills
 - C. willed
 - D. will

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

There was many people who voted for him.

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

Going by the current pace of work, I _____ think this will finish by Sunday.

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

In India, people of all religions and castes live together and they are _____ in spite of cultural differences.

- A. confused
 - B. united
 - C. shared
 - D. learned

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

Sumit has decided to brought his car for the picnic.

FRIEND

- A. Companion
 - B. Partner
 - C. Helper
 - D. Foe

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

FOWL

- A. Dirty
 - B. Bird
 - C. Mistake
 - D. Unfair

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

CLEAR

- A. Black
 - B. Murky
 - C. White
 - D. Clean

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

The lockdowns has give many parents and grandparents the opportunity to share some of my nostalgic memories with their children and grandchildren.

11. Select the word which means the same as the group of words given.

One who leaves one's country to settle in another

- A. Immigrant
 - B. Emigrant
 - C. Foreigner
 - D. Citizen

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

Since India has started doing well in hockey it had once again become a popular sport.

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

Raining cats and dogs

- A. Facing light rain and wind B. Raining very heavily
C. Having lots of pets around you D. Worried about cats and dogs

14. Select the INCORRECTLY spelt word.

- A. Amanable B. Amicable
C. Amiable D. Approachable

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

I rang up an old friend of mine but she doesn't pick out the phone.

- A. No substitution required B. didn't pick up
C. isn't pick out D. wasn't picked up

16. Select the INCORRECTLY spelt word.

- A. Fasting B. Fabulus
C. Further D. Farther

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

People are slowly returning to their normal routine after opening up of the lockdown.

- A. No substitution required B. opening down
C. closing up D. closing

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

The teacher was very _____. She never let anyone play pranks in her class.

- A. happy B. jovial
C. lenient D. strict

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

How time flies!

- A. Time seems to stay still B. Difficult to pass time

A computer programmer, sometimes (1)____ a software developer, a programmer or more recently a coder, (2)____ a person who creates computer software. The term 'computer programmer' can (3)____ to a specialist in the area of computers, or to a generalist (4)____ writes codes for many kinds of software. Some programmers who (5)____ web programming languages add a prefix, a suffix, or both to every page's title.

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

A. work with

C. study with

B. display at

D. work of

26. तीन कथनों के बाद तीन निष्कर्ष संख्या I, II और III दिए गए हैं। कथनों को सत्य मानते हुए, भले ही वे सामान्यतः ज्ञात तथ्यों के अनुस्रप न हों, निर्णय करें कि कौन सा/से निष्कर्ष तार्किक रूप से कथनों का अनुसरण करता है/हैं।

कथन:

A. सभी प्रबंधक, कर्मचारी हैं।

B. सभी वरिष्ठ, प्रबंधक हैं।

C. कुछ वरिष्ठ, पेंशनभोगी हैं।

निष्कर्ष:

I. कुछ पेंशनभोगी, कर्मचारी हैं।

II. कुछ कर्मचारी, पेंशनभोगी हैं।

III. सभी कर्मचारी, वरिष्ठ हैं।

A. केवल निष्कर्ष I अनुसरण करता है

C. केवल निष्कर्ष I और II अनुसरण करते हैं

B. केवल निष्कर्ष I और III अनुसरण करते हैं

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

27. चार लड़कियां अर्थात् 1, 2, 3 और 4 तथा चार लड़के अर्थात् P, Q, R और S एक गोल मेज की चारों ओर केंद्र की ओर मुख करके बैठे हैं।

i. कोई भी दो लड़कियां या लड़के एक दूसरे के आसन्न नहीं बैठे हैं।

ii. Q, 2 की ठीक बाईं ओर बैठा है।

iii. S, 1 और 4 के मध्य में बैठा है तथा उसका मुख R की ओर है।

P और R के मध्य कौन बैठा है?

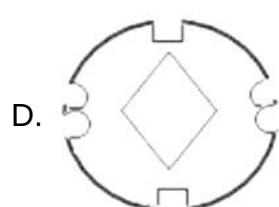
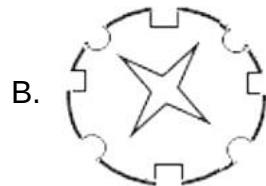
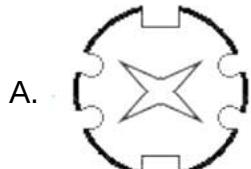
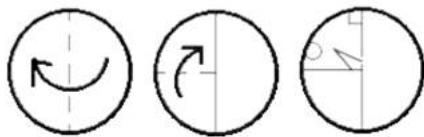
A. 1

B. 2

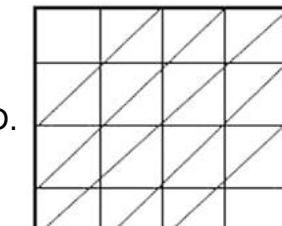
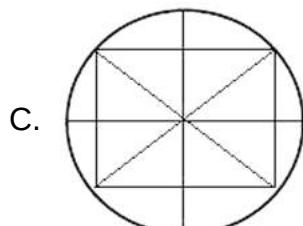
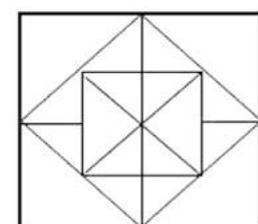
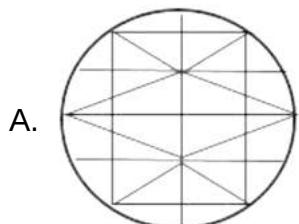
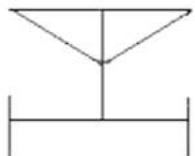
C. 3

D. 4

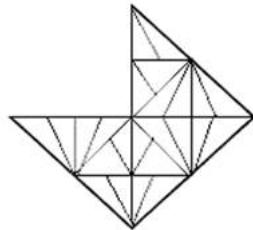
28. कागज के एक टुकड़े को मोड़ने का क्रम और जिस तरीके से कागज को मोड़ा गया है, को नीचे की आकृतियों में दर्शाया गया है। कागज खोले जाने पर कैसा दिखाई देगा?



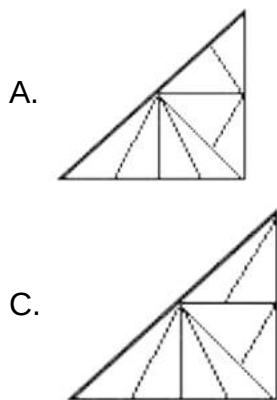
29. उस विकल्प का चयन करें जिसमें दी गई आकृति अंतर्निहित है (रोटेशन की अनुमति नहीं है)।



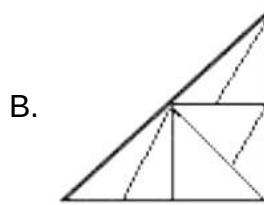
30. उस विकल्प आकृति का चयन करें, जिसे 'X' के रूप में चिन्हित आकृति के स्थिति स्थान में स्थापित किए जाने पर पैटर्न पूरा हो जाएगा।



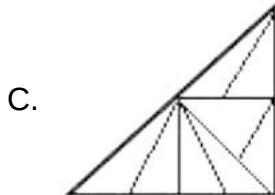
(X)



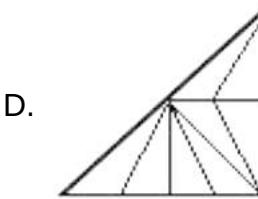
A.



B.



C.



D.

31. संख्याओं के उस समुच्चय का चयन करें जो निम्नलिखित समुच्चय के समान हो।

{12, 18, 6}

- | | |
|----------------|-----------------|
| A. {18, 9, 8} | B. {9, 14, 11} |
| C. {16, 12, 8} | D. {15, 13, 11} |

32. जिस प्रकार 'पानी' का संबंध 'फ़िल्टर' से है उसी प्रकार 'फ़िल्म' का संबंध किससे है।

- | | |
|-------------|-------------|
| A. कास्टिंग | B. निर्देशक |
| C. सेंसर | D. निर्माता |

33. यदि NATURE को MCQYMK के रूप में कूटबद्ध किया जाता है, तो CREST को किस प्रकार कूटबद्ध किया जाएगा?

- | | |
|----------|----------|
| A. CPHOY | B. BTBOY |
| C. BTHKO | D. BTBWO |

34. यदि प्रतीक – और + को आपस में बदला जाता है, तो निम्न में से कौन सा समीकरण सही होगा?

- | | |
|------------------------------|-------------------------------|
| A. $7 \times 3 + 9 - 6 = 17$ | B. $12 + 3 \times 2 - 4 = 10$ |
| C. $10 - 5 - 10 + 5 = 8$ | D. $9 - 6 \times 2 + 8 = 11$ |

35. जिस प्रकार 'मोतियाबिंद' का संबंध 'नेत्र विज्ञान' से है उसी प्रकार 'न्यूरोसिस' का संबंध किससे है।

- | | |
|---------------------|-----------------|
| A. तंत्रिका-विज्ञान | B. समाज शास्त्र |
| C. मनोविज्ञान | D. जीवविज्ञान |

36. सात अलग-अलग रंग की पुस्तकें एक के बाद एक रखी गई हैं।

- i. लाल पुस्तक नारंगी पुस्तक के ठीक ऊपर है।
- ii. नीली पुस्तक हरे और पीले रंग की पुस्तक के मध्य में है।
- iii. बैंगनी पुस्तक हरे और काले रंग की पुस्तक के मध्य में है।
- iv. हरे और लाल रंग की पुस्तकों के मध्य में उतनी ही पुस्तकें हैं जितनी काले और नीले रंग की पुस्तक के मध्य हैं।

यदि पीले रंग की पुस्तक सबसे ऊपर है, तो कौन सी पुस्तक ठीक मध्य में है?

- A. नारंगी
- B. लाल
- C. बैंगनी
- D. हरी

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

BDF, HKN, PRT, VYB, DFH, ?

- A. JMP
- B. KNQ
- C. JLN
- D. JLK

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

कथन:

- 1) सभी हॉस्टल, बिल्डिंग हैं।
- 2) कुछ बिल्डिंग, पैलेस हैं।

निष्कर्ष:

- I. कुछ पैलेस, हॉस्टल हैं।
 - II. कोई पैलेस, हॉस्टल नहीं है।
- A. या तो निष्कर्ष । या ॥ अनुसरण करता है
 - B. केवल निष्कर्ष ॥ अनुसरण करता है
 - C. दोनों निष्कर्ष । और ॥ अनुसरण करते हैं
 - D. केवल निष्कर्ष । अनुसरण करता है

39. यदि PEARS को 101 के रूप में तथा CAT को 49 के रूप में कूटबद्ध किया जाता है, तो MEAL को किस प्रकार कूटबद्ध किया जाएगा?

C. \times और =

D. – और +

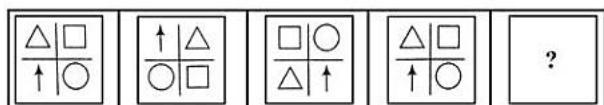
47. P, Q, R, S, T, U और V एक कतार में खड़े हैं।

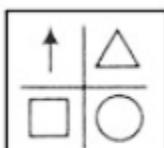
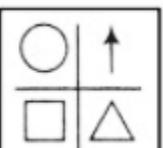
- i. T, P के ठीक पीछे हैं।
- ii. V, Q के ठीक आगे है, जो अंतिम व्यक्ति नहीं है।
- iii. S, P और R के मध्य में है।
- iv. T और Q के मध्य एक व्यक्ति है।

कतार में अंतिम व्यक्ति कौन है?

- | | |
|------|------|
| A. Q | B. S |
| C. U | D. T |

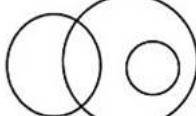
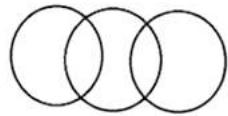
48. निम्नलिखित आकृति शस्त्रखला में कौन सी आकृति प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगी?

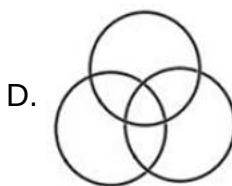
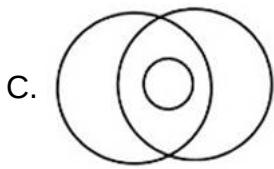


- | | |
|--|---|
| A.  | B.  |
| C.  | D.  |

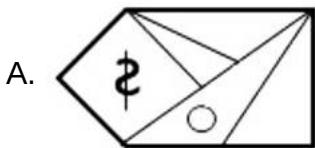
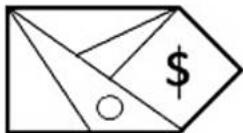
49. उस वेन आरेख का चयन करें जो निम्नलिखित वर्गों के बीच संबंध को सर्वोत्तम रूप से दर्शाता है।

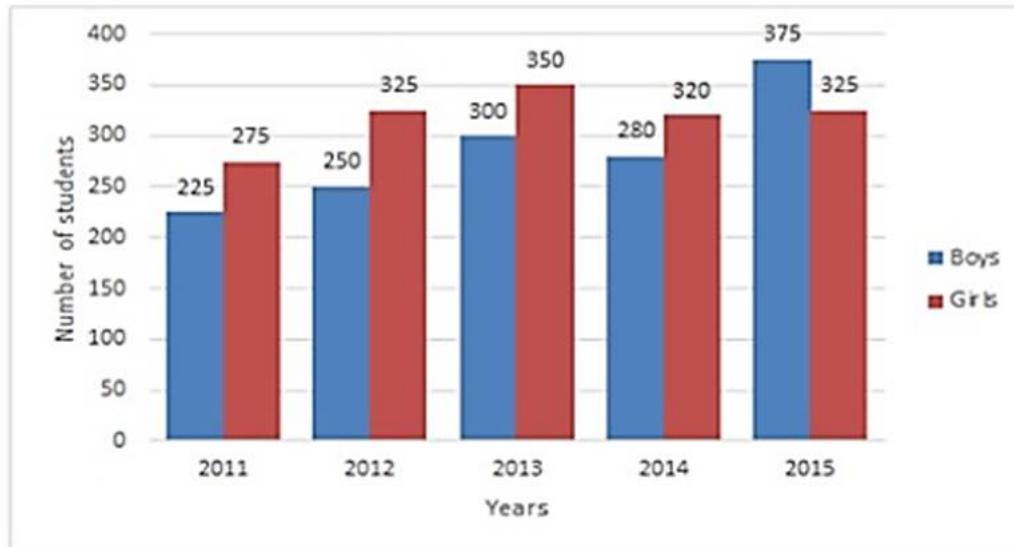
महिलाएं, रिश्तेदार, अंकल

- | | |
|--|---|
| A.  | B.  |
|--|---|



50. आकृति की दर्पण छवि का चयन करें, जब दर्पण को आकृति की दाईं ओर स्थापित किया जाता है।





2011, 2013 और 2015 में उपस्थित होने वाले लड़कों की संख्या का औसत 2014 में उपस्थित होने वाली लड़कियों की संख्या से कितना प्रतिशत कम है?

- C. 75 D. 72

57. दो ट्रेनों की गति का अनुपात 5 : 8 है। यदि दूसरी ट्रेन 4 घंटे में 600 किमी चलती है, तो पहली ट्रेन की गति (किमी/घंटा में) है:
A. 25.5 B. 62.5
C. 37.75 D. 93.75

58. कक्षा A और B में छात्रों की कुल संख्या 72 है। A में छात्रों की संख्या B की तुलना में 40% अधिक है। B में छात्रों के औसत अंक A में छात्रों की तुलना में 50% अधिक हैं। यदि A और B में सभी छात्रों की औसत अंक 58 है, तो A में छात्रों के औसत अंक क्या हैं?
A. 58 B. 72
C. 50 D. 48

59. तीन धनात्मक संख्याएँ हैं। यदि उनमें से किन्हीं दो का औसत तीसरी संख्या में जोड़ दिया जाए, तो परिणामी योगफल 154, 148 और 132 हैं। मूल तीन संख्याओं का योग है:
A. 222 B. 231
C. 246 D. 217

60. एक राशि चक्रवृद्धि ब्याज की एक निश्चित दर से 10 वर्षों में दोगुनी हो जाती है। कितने वर्षों में यह आठ गुना हो जाएगा?
A. 15 B. 30
C. 45 D. 25

61. यदि साधारण ब्याज की वार्षिक दर 8% से बढ़कर $12\frac{1}{2}\%$ हो जाती है, तो एक व्यक्ति की वार्षिक आय में ₹639 की वृद्धि होती है। मूलधन (₹ में) ज्ञात कीजिए है:
A. 14,200 B. 8,200
C. 12,500 D. 11,250

62. 'A' एक कार्य का 40% भाग 6 दिनों में पूरा कर सकता है, जबकि 'B' कार्य को $7\frac{1}{2}$ दिनों में पूरा कर सकता है। यदि वे एक साथ कार्य करते हैं, तो कार्य कितने दिनों में पूरा होगा?
A. 4 B. 7
C. 6 D. 5

63. एक वस्तु का अंकित मूल्य ₹5,450 है। यदि कोई व्यक्ति 15% की छूट देने के बाद 15% का लाभ कमाता है, तो वस्तु का लागत मूल्य (₹ में) (निकटतम पूर्णांक तक सही) है:
A. 4,498 B. 4,189
C. 4,289 D. 4,028

64. जब एक वस्तु ₹388 में बेची जाती है, तो 3% की हानि होती है। वस्तु का विक्रय मूल्य (₹ में) क्या है, यदि इसे 18% के लाभ पर बेचा जाता है?
A. 444 B. 472
C. 432 D. 460

- C. 8 D. 9

73. एक टैंक 25 मीटर लंबा, 12 मीटर चौड़ा और 6 मीटर गहरा है। इसकी दीवारों और तल पर ₹10 प्रति वर्ग मीटर की दर से प्लास्टर करने की लागत (₹ में) है:

 - A. 11,160
 - B. 12,500
 - C. 6,275
 - D. 7,440

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

 - A. 120%
 - B. 115%
 - C. 140%
 - D. 125%

75. यदि एक आयत की लंबाई में 40% की वृद्धि की जाती है, तो उसी क्षेत्रफल को बनाए रखने के लिए चौड़ाई में कितने प्रतिशत की कमी (दशमलव के एक स्थान तक सही) होगी?

 - A. 37.5%
 - B. 33.5%
 - C. 28.6%
 - D. 42.5%

76. माता-पिता एवं वरिष्ठ नागरिक भरण-पोषण एवं कल्याण अधिनियम, 2007द्वारा निम्नलिखित में से किसे बच्चों की परिभाषा में शामिल नहीं किया गया था?

 - A. वयस्क पुत्र
 - B. वयस्क पुत्री
 - C. नाबालिंग पुत्र
 - D. वयस्क पौत्र

77. _____ बेसिन का लगभग 50% महाराष्ट्र में स्थित है।

 - A. गोदावरी
 - B. कावेरी
 - C. महानदी
 - D. नर्मदा

78. निम्नलिखित में से किस क्रिकेटर को जुलाई 2020 में इंग्लैंड टेस्ट क्रिकेट टीम के कप्तान द्वारा 'मिस्टर इनक्रेडिबल' के रूप में वर्णित किया गया?

 - A. जेसन रॉय
 - B. स्टुअर्ट ब्रॉड
 - C. क्रिस वोक्स
 - D. बेन स्टोक्स

79. अवधि किसान सभा की स्थापना _____ में हुई थी।

 - A. 1918
 - B. 1920
 - C. 1921
 - D. 1924

80. 'बॉय: टेल्स ऑफ चाइल्डहूड' _____ की आत्मकथात्मक पुस्तक है।

 - A. मार्क ट्वेन (Mark Twain)
 - B. रस्किन बांड (Ruskin Bond)
 - C. रोनाल्ड डाहल (Roald Dahl)
 - D. लुइस कैरल (Lewis Carroll)

81. भारत के संविधान का भाग _____ देश के भीतर व्यापार और वाणिज्य की स्वतंत्रता का प्रावधान करता है।

A. 20

B. 10

C. 15

D. 13

82. राठवा नी घेर (Rathwa ni Gher) गुजरात की राठवा (Rathwa) जनजाति द्वारा _____ के अवसर पर किया जाने वाला नृत्य है।
A. जन्माष्टमी
B. होली
C. मकर संक्रांति
D. दशहरा

83. _____ प्रत्येक वर्ष फरवरी में शिल्पग्राम में मनाया जाता है।
A. ताज महोत्सव
B. नाट्यंजलि नृत्य उत्सव
C. तानसेन संगीत समारोह
D. जीरो महोत्सव

84. 2001-2011 की अवधि के लिए भारत की औसत घातीय वृद्धि दर (exponential growth rate) (जनसंख्या) _____ % प्रतिवर्ष थी।
A. 3.82
B. 1.64
C. 0.46
D. 2.38

85. निम्नलिखित में से कौन सा पैलेस तिरुवनंतपुरम में स्थित है?
A. चौमहल्ला पैलेस (Chowmahalla Palace)
B. अंबर पैलेस (Amber Palace)
C. उज्जयंत पैलेस (Ujjayanta Palace)
D. कनककुन्नू पैलेस (Kanakakkunnu Palace)

86. पंडित मदन मोहन मालवीय को ' _____ ' के नारे को लोकप्रिय बनाने का श्रेय दिया जाता है।
A. वन्दे मातरम
B. इंकलाब जिंदाबाद
C. जय जवान जय किसान
D. सत्यमेव जयते

87. किस भारतीय राज्य ने दिसंबर 2019 में उच्चतम जीएसटी राजस्व संग्रह दर्ज किया?
A. गुजरात
B. पंजाब
C. कर्नाटक
D. महाराष्ट्र

88. निम्नलिखित में से किस पर्यावरणविद् को 2015 में स्टॉकहोम जल पुरस्कार (Stockholm Water Prize) से सम्मानित किया गया?
A. वंदना शिवा (Vandana Shiva)
B. अनादीश पाली (Anadish Pal)
C. तुलसी गौड़ा (Tulsi Gowda)
D. राजेन्द्र सिंह (Rajendra Singh)

89. निम्नलिखित में से कौन पश्च मस्तिष्क का भाग नहीं है?
A. पॉंस (Pons)
B. मेडुला (Medulla)
C. सेरिबेलम (Cerebellum)
D. हाइपोथेलेमस (Hypothalamus)

90. _____ ने साइमन कमीशन के खिलाफ शांतिपूर्ण प्रदर्शन के दौरान अपने ऊपर लगी चोटों के कारण दम तोड़ दिया।
A. बाल गंगाधर तिलक
B. गोपाल कृष्ण गोखले
C. बिपिन चंद्र पाल
D. लाला लाजपत राय

91. निम्नलिखित में से कौन सा सूक्ष्मजीव हैजा का कारण बनता है?

A. कवक

C. प्रोटोजोआ

B. बैकटीरिया

D. वायरस

92. निम्नलिखित में से कौन सा कथन गलत है?

A. यकृत पित्त का स्राव करता है।

C. यकृत पेट के ऊपरी हिस्से में बाईं ओर स्थित होता है।

B. यकृत शरीर की सबसे बड़ी ग्रंथि है।

D. यकृत का रंग लाल-भूरा होता है।

93. भारतीय रिजर्व बैंक द्वारा वर्ष _____ में 'स्वच्छ नोट नीति' की घोषणा की गई थी।

A. 1992

C. 1997

B. 1999

D. 1995

94. _____ को गांधी जी ने 'करो या मरो' का प्रसिद्ध नारा दिया था।

A. 14 जुलाई 1942

C. 24 सितंबर 1942

B. 23 मार्च 1942

D. 8 अगस्त 1942

95. _____ का पूर्ण अपवर्तनांक 2.42 है।

A. वायु

C. क्राउन ग्लास

B. हीरा

D. जल

96. सितंबर 2017 में भारत सरकार द्वारा शुरू किया गया इलेक्ट्रॉनिक पोर्टल . 'पेंसिल' ('PENCIL')_____ का संक्षिप्त शब्द है।

A. प्लेटफॉर्म फॉर इफेक्टिव एनफोर्समेंट फॉर नो चाइल्ड लेबर

C. प्रोमुलगेशन ऑफ इंज़ोस्टिव एजुकेशन फॉर नार्मल एंड कॉम्प्रेहेंसिव लर्निंग

B. पैराडिगम फॉर इंफोर्समेंट ऑफ इक्वलिटी फॉर नीडी चाइल्ड लबोरर्स

D. प्रोटोकॉल फॉर इंजी एजुकेशन एंड नॉवेल क्रिएटिव लर्निंग

97. निम्न में से कौन सा बांध मध्य प्रदेश में स्थित है?

A. तवा

C. कोयना

B. उज्जनी

D. ईसापुर

98. भारत के राष्ट्रीय जलमार्ग -1 में शामिल हैं:

A. गंगा-भागीरथी-हुगली नदी का हल्दिया-इलाहाबाद खंड

C. ब्रह्मपुत्र नदी का सादिया-धुबरी खंड

B. बराक नदी का असम-मिजोरम खंड

D. वेस्ट कोस्ट नहर और चंपाकारा और उद्योगमंडल नहरों के कोल्लम-कोट्टापुरम खंड

99. निम्नलिखित में से कौन सा ओलंपिक आयोजन नहीं है?

A. रिदमिक जिमनास्टिक

C. एक्रोबेटिक जिम्नास्टिक

B. आर्टिस्टिक जिमनास्टिक्स

D. ट्रैम्पोलिन जिमनास्टिक

100. सभी अम्ल धातुओं के साथ अभिक्रिया करके _____ गैस उत्पन्न करते हैं।

- A. हाइड्रोजन
- B. नाइट्रोजन
- C. क्लोरीन
- D. ऑक्सीजन

Solutions

1. D

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

Iconic = being famous person or thing that people admire and see as a symbol of a particular idea, way of life etc.

E.g.: Perfect marketing strategies are important for any brand to achieve **iconic** status among its customers.

Manageable = possible to deal with or control.

Unimportant = not important.

General = an officer of very high rank in the army or the air force.

Exemplary = providing a good example for people to copy.

E.g.: Our organisation has an **exemplary** record in customer services.

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

2. D

Sol.

Let us understand the meaning of the given words:-

* Willing = (adjective) ready or pleased to help and not needing to be persuaded

* Wills = is an erroneous plural form of "Will".

* Willed = (adjective) used with adjectives to show having the type of will mentioned.

* Will = (noun) a strong and determined desire to do something that you want to do.

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

- * "Willing" is an adjective but we need a noun in the given filler because an article "a" is used before the filler. Thus, option A is incorrect.
- * "Wills" is a plural form of "Will". We need a singular noun in the sentence. Thus, option B is incorrect.
- * "Willed" is an adjective but we need a noun in the given filler because the article "a" is used before the filler. Thus, option C is incorrect.
- * "Will" is an uncountable noun. It means determined desire to do something. Here in the given sentence, it is used as part of idiom "Where there's a will, there's a way". This idiom means if you really want to do something then you will find a way of doing it.

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

Thus the correct sentence will be:

Remember that where there is a will there is a way.

3. A

Sol.

The sentence is grammatically incorrect, and the error lies in **option A**. The error is related to **Subject Verb agreement**.

- * The sentences that begin with empty subjects (like It, There), the verb is used in accordance with the complement.

For example:

There were lights still ablaze as they drove up to the house.

Here, “There” is an empty subject. “Lights” is the complement which is plural in nature. Accordingly, a plural verb “were” is used.

* In the given sentence, “there” is an empty subject. “People” is the complement which is plural in nature. According to the subject verb agreement, a plural verb should be used here. But we have used a singular verb “was”. Thus, plural verb “were” should be used in place of singular verb “was”.

* Hence, “**there were**” is the correct substitution.

Thus, the correct sentence will be:

There were many people who voted for him.

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

4. B

Sol.

Let us understand the meaning of the given words:-

* Couldn't = Contracted form of “could not”.

* Don't = Contracted form of “do not”.

* Won't = Contracted form of “will not”.

* Shan't = Contracted form of “shall not”.

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

* “Couldn't” as a modal verb is used to show the ability. Thus, option A is incorrect.

- * "Won't" as a modal verb is used to show the willingness of someone. Thus, option C is incorrect.
- * "Shan't" as a modal verb is used with "I" and "We" for talking about the future. Thus, option D is incorrect.
- * "Don't" is the contracted form of "do not". It is used in simple present tense when the subject is plural. It is also used with "I" and "you".

Thus, "Don't" becomes the correct word to fill in the blank.

Thus the correct sentence will be:

Going by the current pace of work, I don't think this will finish by Sunday.

5. B

Sol.

Let us understand the meaning of the given words:-

- * Confused = to make someone unable to think clearly or understand something.
- * United = in agreement and working together.
- * Shared = to have, use or experience something at the same time as someone else.
- * Learned = to gain knowledge or skill by studying, from experience, from being taught etc.

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

- * "Confused" is used in context of "not able to think clearly". Thus, option A is incorrect.
- * "Shared" is used in context of "experience something together". Thus, option C is incorrect.

- * "Learned" is used in context of "gain knowledge or skill". Thus, option D is incorrect.
- * "United" is used in context of "working together". Here in the given sentence, it is used to convey that Indian work/live together with one another despite their cultural differences.

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

Thus the correct sentence will be:

In India, people of all religions and castes live together and they are united in spite of cultural differences.

6. A

Sol.

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

- * The structure of infinitive verb: "to + first form of verb".

For example:

He has tried **to play** down his involvement in the affair.

- * In the given sentence, the verb "brought" is used after "to". This is wrong. Thus, the first form "buy" should be used in its place.

- * Hence, "**to buy**" is the correct substitution.

Thus, the correct sentence will be:

Sumit has decided to buy his car for the picnic.

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

7. D

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

Friend = a person you know well and like, and who is not usually a member of your family.

E.g.: She is one of my best friends.

Companion = a person or an animal that travels with you or spends a lot of time with you.

Partner = a person that you are doing an activity with such as dancing, playing a game.

Helper = a person who helps someone to do something.

Foe =an enemy

E.g.: He is unsure whether she is a friend or **foe**.

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

8. B

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

Fowl = a bird that is kept for its meat and eggs, for example a chicken.

E.g.: There are many varieties of **fowls** such as turkeys and ducks.

Dirty = not clean

Bird = a creature that is covered with feathers and has two wings and two legs.

E.g.: **Birds** were singing in the trees.

Mistake = an action or opinion that is not correct.

Unfair = not right or fair according to a set of rules or principles; not treating people equally.

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

9. B

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

Clear = easy to understand OR without any spots or marks

E.g.: The water was so **clear** we could see the bottom of the lake.

Black = having the very darkest colour like coal or the sky at night.

Murky = not clear; dark or dirty with mud or another substance.

E.g.: He gazed into the **murky** depths of the water.

White = having the colour of fresh snow or of milk OR connected with a race of people who have pale skin.

Clean = not dirty.

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

10. C

Sol.

The underlined part of the sentence is grammatically incorrect.

* The underlined part needs correction in helping verb, tense and determiner.

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

For example:

These **shoes have** given me blisters on my heels.

Shoes: Plural subject.

Have: Plural helping verb

In the given sentence, “lockdowns” is a plural subject, but we have used the singular helping verb “has”. This is wrong. As per subject verb agreement, the plural helping verb “have” should be used here.

* The present perfect tense has the structure: “Has/Have + third form of verb”

In the given sentence, we have used first form of verb “give” after the helping verb. This is wrong. Thus, the third form of verb “given” should be used in place of “give”.

* “Their” as a determiner is used for showing possessions belonging to plural nouns. Whereas, “My” as a determiner is used for showing possession belonging to speaker i.e. “I”

For example:

I try to do my job to the best of **my** ability to attract clients.

Local farmers are able to make a decent living by selling **their** produce.

* In the given sentence, “nostalgic memories” belongs to “parents and grandparents” mentioned before the underlined part. “Parents and grandparents” are plural. Thus, “their” should be used to show their possession over “nostalgic memories”.

* Hence, “**have given, of their**” is the correct substitution.

Thus, the correct sentence will be:

The lockdowns have given many parents and grandparents the opportunity to share some of their nostalgic memories with their children and grandchildren.

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

11. B

Sol.

Immigrant: a person who has come to live permanently in a country that is not their own.

Emigrant: a person who leaves their country to live permanently in another.

Foreigner: a person who comes from a different country.

Citizen: a person who has the legal right to belong to a particular country.

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

12. B

Sol.

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

* The structure of the present perfect tense: “has/have + third form of verb”.

For example:

This area **has become** a breeding ground for violent crimes.

* The given sentence is set in the present tense because the verb “has started” is used. But we have used the past perfect tense to explain the effect of something that has happened in present perfect tense. This gives the wrong sense to the meaning of the sentence. Thus, helping verb “has” should be used in place of “had”.

* Hence, “**it has once again**” is the correct substitution.

Thus, the correct sentence will be:

Since India has started doing well in hockey it has once again become a popular sport.

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

13. B

Sol.

The idiom “**Raining cats and dogs**” means raining heavily.

Example: You are advised to wear a raincoat because it is **raining cats and dogs** outside.

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

14. A

Sol.

Option A has incorrectly spelt word.

“Amenable” is the correct spelling of the incorrect word “Amanable”. It means easy to control; willing to be influenced by someone/something.

The meaning of other words are:

Amicable: done or achieved in a polite or friendly way and without arguing.

Amiable: pleasant; friendly and easy to like.

Approachable: friendly and easy to talk to' easy to understand.

15. B

Sol.

The underlined part of the sentence is grammatically incorrect.

- * The underlined part needs correction in tense and in the phrasal verb.
- * “Did not” is used in simple past tense.

For example:

He **did not** even acknowledge the question.

- * The given sentence is set in past tense because the second form of verb “rang” is used. But the underlined part contains the verb structure associated with the simple present tense which is wrong. Thus, the verb structure of the simple past tense “did not” should be used in place of “does not”.
- * Also, “pick up” is a phrasal verb and it means to answer a phone. “Pick out” is also a phrasal verb but it means to discover or recognize something after careful study. The meaning conveyed by “Pick up” is in line with the meaning of the given sentence. Thus, preposition “up” should be used in place of “out”.
- * Hence, “**didn't pick up**” is the correct substitution.

Thus, the correct sentence will be:

I rang up an old friend of mine but she didn't pick up the phone.

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

16. B

Sol.

Option B has incorrectly spelt word.

“Fabulous” is the correct spelling of the incorrect word “Fabulus”. It means extremely good.

The meaning of other words are:

Fasting: to eat little or no food for a period of time, especially for religious or medical reasons.

Further: more; additional

Farther: at or to a greater distance in space or time.

17. A

Sol.

The underlined part of the sentence is grammatically correct.

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

18. D

Sol.

Let us understand the meaning of the given words:-

* Happy = feeling or showing pleasure.

* Jovial = very cheerful and friendly.

* Lenient = not as strict as expected when punishing someone or when making sure that rules are obeyed.

* Strict = demanding that rules should be obeyed.

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

* "Happy" is used in context of "showing pleasure". Thus, option A is incorrect.

* "Jovial" is used in context of "friendly". Thus, option B is incorrect.

* "Lenient" is used in context of "not as strict". Thus, option C is incorrect.

* "Strict" is used in context of "demanding that rules should be obeyed". Here in the given sentence, it is used to qualify the nature of teacher. The second part clearly mentions that the teacher doesn't let anyone play pranks in her class.

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

Thus the correct sentence will be:

The teacher was very strict. She never let anyone play pranks in her class.

19. D

Sol.

The idiom "**How time flies!**" means time seems to pass very quickly.

Example: **How time flies!** It feels like we have just arrived at this place.

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

20. C

Sol.

Agoraphobia: a fear of being in public places where there are many other people.

Aquaphobia: a fear of water.

Claustrophobia: a fear of closed spaces.

Acrophobia: a fear of heights.

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

21. A

Sol.

The given passage is about "**Computer programmer**".

“Accepted” means to take willingly something that is offered. Thus, option B is wrong.

“Known” means known about, especially by a lot of people. Thus, option C is wrong.

“Said” means to speak or tell someone/something using words. Thus, option D is wrong.

“Called” means to give someone a particular name; to use a particular name or title. In the given sentence, title of “software developer” is given to a “computer programmer”.

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

22. D

Sol.

The given passage is about **“Computer programmer”**.

“Were” is a plural helping verb and it is used in past tense. Thus, option A is wrong.

“Has” is a singular helping verb and it is used in present perfect tense. It is used to show possession (when used as a main verb). Thus, option B is wrong.

“Was” is a singular helping verb and it is used in past tense. Thus, option C is wrong.

“Is” is a singular helping verb and it is used in simple present tense. Here in the given sentence, it is used for the singular subject “a coder”.

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

23. A

Sol.

The given passage is about **“Computer programmer”**.

“Know” means to have information in your mind as a result of experience. Thus, option B is wrong.

“Mean” means to have something as a meaning in the same or another language. Thus, option C is wrong.

“Specify” means to state that something especially by giving an exact measurement, time, etc. Thus, option D is wrong.

“Refer” means to describe or be connected to someone/something. In the given sentence, “computer programmer” is being connected to “specialist in the area of computers.”

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

24. C

Sol.

The given passage is about “**Computer programmer**”.

“Whom” is the objective case of “Who”. Thus, option A is wrong.

“That” as a relative pronoun is used for nouns that are specified. Thus, option B is wrong.

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

“Who” as a relative pronoun is used for persons. Here in the given sentence, it refers to person “generalist”.

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

25. A

Sol.

The given passage is about “**Computer programmer**”.

“Display at” means to put something in a place where people can see it easily. Thus, option B is wrong.

“Study with” means to spend time learning with someone. Thus, option C is wrong.

“Work of” means to do something that involves physical or mental effort, especially as part of a job. Preposition “of” is not used with verb “work”. Thus, option D is wrong.

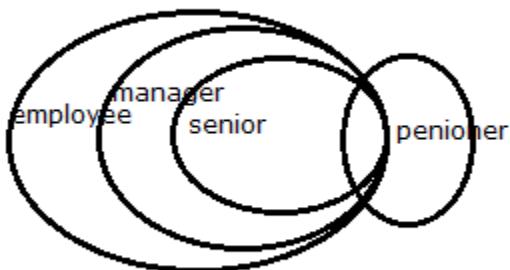
Preposition “with” is used with verb “work”. It is used to show in connection with something. In the given sentence, it refers to work related to “web programming languages”. Thus, “work

"with" is correct.

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

26. C

Sol. कथनों के अनुसार सचित्र प्रतिनिधित्व है:



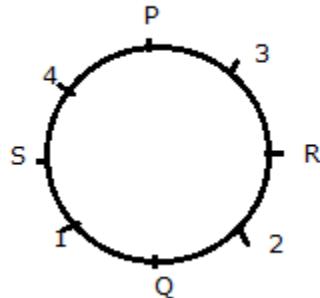
निष्कर्षः

- I. कुछ पेंशनभोगी, कर्मचारी हैं - सही है, क्योंकि सभी वरिष्ठ, प्रबंधक हैं और सभी प्रबंधक, कर्मचारी हैं और कुछ वरिष्ठ, पेंशनभोगी हैं इसलिए कुछ पेंशनभोगी, कर्मचारी भी हैं।
- II. कुछ कर्मचारी, पेंशनभोगी हैं – सही है, क्योंकि सभी वरिष्ठ, प्रबंधक हैं और सभी प्रबंधक, कर्मचारी हैं तथा कुछ वरिष्ठ, पेंशनभोगी हैं इसलिए कुछ कर्मचारी, पेंशनभोगी भी हैं।
- III. सभी कर्मचारी, वरिष्ठ हैं – गलत, क्योंकि यह एक निश्चित मामला नहीं है।

इसलिए, विकल्प C सही उत्तर है।

27. C

Sol. लड़कियों और लड़कों के बैठने की संभावित व्यवस्था है:

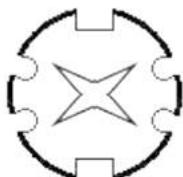


तो, 3, P और R के मध्य में बैठा है।

इसलिए, विकल्प C सही उत्तर है।

28. A

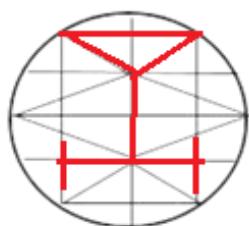
Sol. जब कागज को मोड़ा जाता है और फिर प्रश्नों में दिए गए निर्देश के अनुसार काटा जाता है, तो कागज को खोलने के बाद बनने वाला पैटर्न नीचे दिया गया है :



इसलिए, विकल्प A सही उत्तर है।

29. A

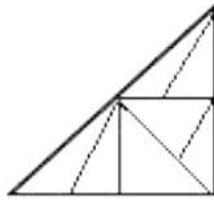
Sol. दिया गया पैटर्न नीचे दी गई आकृति में अंतर्निहित है:



इसलिए, विकल्प A सही उत्तर है।

30. C

Sol. नीचे दी गई आकृति को रिक्त स्थान पर रखे जाने पर दी गई आकृति पूर्ण हो जाएगी।



इसलिए, विकल्प C सही उत्तर है।

31. C

Sol. यहां तर्क यह है कि पहली और तीसरी संख्या के गुणा के बाद प्राप्त संख्या विभाज्य मध्य संख्या है:

$$\{12, 18, 6\} = 12 \times 6 = 72, 18 \text{ से विभाज्य है}$$

$$\{18, 9, 8\} = 18 \times 8 = 144, 9 \text{ से विभाज्य है}$$

$$\{9, 14, 11\} = 11 \times 9 = 99, 14 \text{ से विभाज्य नहीं है}$$

$$\{16, 12, 8\} = 16 \times 8 = 128, 12 \text{ से विभाज्य नहीं है}$$

$$\{15, 13, 11\} = 15 \times 11 = 165, 13 \text{ से विभाज्य नहीं है}$$

इसलिए, विकल्प C सही उत्तर है।

32. C

Sol. जिस तरह पीने से पहले पानी फिल्टर होता है उसी तरह फिल्म देखने से पहले सेंसर होती है।

इसलिए, विकल्प C सही उत्तर है।

33. D

N -1 = M	C-1 =B
A +2 = C	R+2 =T
T -3 =Q	E -3 =B
U +4 =Y	S+4 =W
R -5 = M	T-5 =O
E +6 =K	

इसलिए, विकल्प D सही उत्तर है।

34. B

Sol. इस प्रकार के प्रश्नों को हिट एंड ट्रायल विधि द्वारा हल किया जाता है:

$$12 + 3 \times 2 - 4 = 10$$

प्रतीक – और + को आपस में बदला जाता है,

$$12 - 3 \times 2 + 4 = 10$$

BODMAS नियम लागू करने पर,

$$12-6+4=10$$

$$16-6=10$$

$$10=10$$

इसलिए, विकल्प B सही उत्तर है।

35. C

Sol. नेत्र विज्ञान, मोतियाबिंद के उपचार हेतु इस्तेमाल की जाने वाली औषधि की शाखा है, इसी तरह मनोविज्ञान का उपयोग मानसिक विकार न्यूरोसिस के उपचार हेतु किया जाता है।

इसलिए, विकल्प C सही उत्तर है।

36. C

Sol. प्रश्न के अनुसार पुस्तकों की व्यवस्था है:

पीली
नीली
हरी
बैंगनी
काली
लाल
नारंगी

तो, बैंगनी पुस्तक मध्य में है।

इसलिए, विकल्प C सही उत्तर है।

37. A

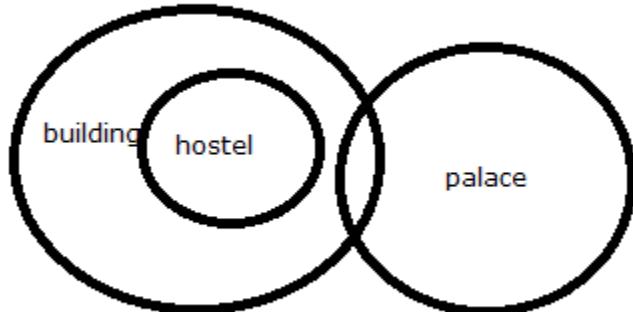
Sol.

B + 6 = H	P + 6 = V	D + 6 = J
D + 7 = K	R + 7 = Y	F + 7 = M
F + 8 = N	T + 8 = B	H + 8 = P

इसलिए, विकल्प A सही उत्तर है।

38. A

Sol.



निष्कर्षः

I. कुछ पैलेस, हॉस्टल हैं - सही हो सकता है क्योंकि सभी हॉस्टल, बिल्डिंग हैं तथा कुछ बिल्डिंग, पैलेस हैं, इसलिए यह संभव हो सकता है कि हॉस्टल जो बिल्डिंग है, पैलेस हो सकता है।

II. कोई पैलेस, हॉस्टल नहीं है – सही हो सकता है, क्योंकि सभी हॉस्टल, बिल्डिंग हैं तथा कुछ बिल्डिंग, पैलेस हैं, इसलिए यह संभव हो सकता है कि हॉस्टल, जो बिल्डिंग है, वे पैलेस न हो।

तो, या तो निष्कर्ष | या || अनुसरण करता है।

इसलिए, विकल्प A सही उत्तर है।

39. A

Sol. तर्क इस प्रकार है-

स्वरों को उनके उल्टे अक्षरों के स्थानीय मान के रूप में कूटबद्ध किया जाता है तथा व्यंजनों के स्थानीय मान को इस प्रकार माना जाता है।

इन स्थानीय मानों का योग हमें कूट देता है।

चूंकि,

$$P (11) + E (22) + A (26) + R (18) + S (19) = 101$$

इसी प्रकार,

$$C (3) + A (26) + T (20) = 49$$

इसी प्रकार,

$$M (13) + E (22) + A (26) + L (12) = 73$$

इसलिए, विकल्प A सही उत्तर है।

40. C

Sol. प्रश्नों को दी गई तालिका के अनुसार हल किया गया है।

P=16=1+6=7	Y=25=2+5=7
A=1=1+0=1	O=15=1+5=6
Y=25=2+5=7	U=22=2+1=3
M=13=1+3=4	N=14=1+4=5
E=5=5+0=5	G=7=7+0=7
N=14=1+4=5	E=5=5+0=5
T=20=2+0=2	R=18=1+8=9

इसलिए, विकल्प C सही उत्तर है।

41. B

Sol. SPIKE JINGO
 QRHDL JIMNH
 RQHLD IJMHN

S-1=R	J-1=I
P+1=Q	I+1=J
I-1=H	N-1=M
K+1=L	G+1=H
E-1=D	O-1=N

इसलिए, विकल्प C सही उत्तर है।

42. C

Sol. यहां तर्क यह है कि पहली संख्या को एक संख्या से गुणा करें और उसी संख्या को जोड़ें।

दूसरी संख्या = पहली संख्या *a+a

$$11*6+6=66+6=72$$

$9*5+5=50$, 48 के बराबर नहीं है

$3*2+2=8$, 7 के बराबर नहीं है

$7*4+4=32 =32$

$15*6+6=90+6=96$, 95 के बराबर नहीं है

इसलिए, विकल्प C सही उत्तर है।

43. C

Sol.

इस श्रृंखला में अनुसरण किया गया तर्क है अगली संख्या = दो पिछली संख्याओं का योग +1

2+1=3
3+2+1=6
6+3+1=10
10+6+1=17
17+10+1=28

इसलिए, विकल्प C सही उत्तर है।

44. C

Sol. 3, 7, 22, 45, 136, ?, 820

3*2+1=7
7*3+1=22
22*2+1=45
45*3+1=136
136*2+1=273
273*3+1=820

इसलिए, विकल्प C सही उत्तर है।

45. D

Sol. एक दूसरे के साथ पड़ोसी अक्षर की स्थिति को परस्पर बदलें:

HOARDING= OHRAIDGN

इसी तरह TREATISE= RTAEITES

अब

O-1=N	R-1=Q
H-1=G	T-1=S
R-1=Q	A-1=Z
A=1=Z	E-1=D
I-1=H	I-1=H
D-C=C	T-1=S
G-1=F	E-1=D
SSN-1=M	S-1=R

इसलिए, विकल्प C सही उत्तर है।

46. D

Sol. – और + को परस्पर बदलने पर

$$8 - 6 \times 4 \div 2 + 10 = 6$$

BODMAS का नियम लागू करने पर

$$8-6\times2+10=6$$

$$8-12+10=6$$

$$18-12=6$$

$$6=6$$

इसलिए, विकल्प D सही उत्तर है।

47. C

Sol. प्रश्न के अनुसार व्यक्तियों की संभावित व्यवस्था है

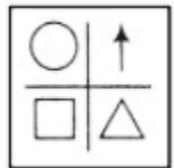
RSPTVQU

तो, U कतार में अंतिम व्यक्ति है।

इसलिए, विकल्प C सही उत्तर है।

48. D

Sol. प्रश्नवाचक चिन्ह को प्रतिस्थापित करने वाली आकृति नीचे दी गई है। तर्क यह है कि प्रत्येक आंतरिक आकृति एक कदम दक्षिणावर्त और फिर विकर्ण चलती है।



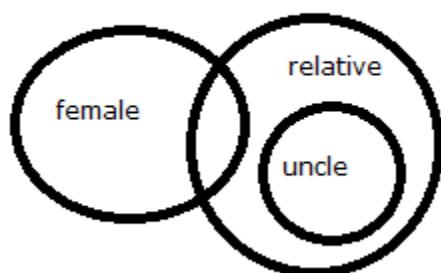
इसलिए, विकल्प C सही उत्तर है।

49. A

Sol. महिला रिश्तेदार हो सकती है लेकिन अंकल नहीं है।

रिश्तेदार में महिला और अंकल शामिल हो सकते हैं।

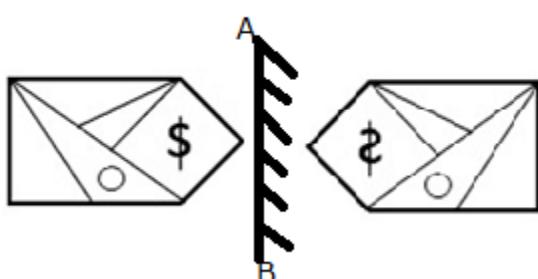
अंकल केवल रिश्तेदार हो सकते हैं महिला नहीं।



इसलिए, विकल्प A सही उत्तर है।

50. A

Sol. दर्पण को स्थापित करने पर निर्मित प्रतिबिम्ब नीचे दिया गया है।



इसलिए, विकल्प C सही उत्तर है।

51. B

Sol. माना वृत्त की तिरज्या = x इकाई

$$\text{वृत्त का क्षेत्रफल} = \pi x^2 \text{ इकाई } ^2$$

वृत्त की तिरज्या में 23% की वृद्धि की जाती है

$$\text{वृत्त की परिणामी तिरज्या} = x + \frac{23x}{100} = \frac{123x}{100} \text{ इकाई}$$

$$\text{वृत्त का परिणामी क्षेत्रफल} = \pi \left(\frac{123x}{100} \right)^2 \text{ इकाई } ^2$$

क्षेत्रफल में प्रतिशत वृद्धि =

$$\frac{\pi \left(\frac{123x}{100} \right)^2 - \pi x^2}{\pi x^2} \times 100 = \frac{\pi x^2 \left[\frac{15129}{10000} - 1 \right]}{\pi x^2} \times 100 = \frac{15129 - 10000}{10000} \times 100 = 51.29\%$$

52. C

Sol. 2011, 2013 और 2015 में उपस्थित होने वाले लड़कों की संख्या का औसत = $\frac{225+300+375}{3} = \frac{900}{3} = 300$

2014 में उपस्थित होने वाली लड़कियों की संख्या = 320

$$\text{अभीष्ट प्रतिशत} = \frac{320 - 300}{320} \times 100 = \frac{20}{320} \times 100 = 6.25\%$$

53. D

Sol. 2012, 2013, 2014 और 2015 में उपस्थित होने वाली लड़कियों की कुल संख्या = $325+350+320+325 = 1320$

सभी पांच वर्षों में उपस्थित होने वाले लड़कों की कुल संख्या = $225+250+300+280+375 = 1430$

$$\text{अभीष्ट प्रतिशत} = \frac{1430 - 1320}{1430} \times 100 = \frac{11000}{1430} = 7.7\%$$

54. D

Sol. 2012 और 2015 में उपस्थित होने वाली लड़कियों की कुल संख्या = $325 + 325 = 650$

2012 और 2013 में कक्षा X की परीक्षा में बैठने वाले लड़कों की कुल संख्या = $250 + 300 = 550$

$$\text{अभीष्ट अनुपात} = 650 : 550 = 13 : 11$$

55. B

Sol. एक धनराशि को P, Q, R और S के बीच क्रमशः 3:4:5:6 के अनुपात में वितरित किया जाता है।

माना P का हिस्सा = $3x$

Q का हिस्सा = $4x$

R का हिस्सा = $5x$

S का हिस्सा = $6x$

R को P से ₹500 अधिक मिलते हैं।

$$\Rightarrow 5x - 3x = 500 \text{ रुपये}$$

$$\Rightarrow 2x = 500 \text{ रुपये}$$

$$\Rightarrow x = 250 \text{ रुपये}$$

उनके सभी हिस्सों का योग (₹ में) = $3x + 4x + 5x + 6x = 18x = 4500 \text{ रुपये}$

56. C

Sol. एक कार x किमी की दूरी $\frac{5}{9} \times 5$ मीटर/सेकंड की गति से तय करती है और शुरूआती बिंदु पर 5 मीटर/सेकंड की गति से लौटती है।

$$\Rightarrow \frac{x}{\frac{50 \times 18}{9}} + \frac{x}{5 \times 18} = \frac{38}{5}$$

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

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

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

$$\Rightarrow x = \frac{38}{5} \times \frac{180}{19} = 72 \text{ किमी}$$

$$\text{अब, } x + 3 = 72 + 3 = 75$$

57. D

Sol. दो ट्रेनों की गति का अनुपात 5 : 8 है।

माना पहली ट्रेन की गति = $5x$

दूसरी ट्रेन की गति = $8x$

दूसरी ट्रेन 4 घंटे में 600 किमी चलती है।

$$\text{दूसरी ट्रेन की गति} = \frac{600}{4} = 150 \text{ किमी/घंटा}$$

$$\Rightarrow 8x = 150$$

$$\Rightarrow x = \frac{150}{8}$$

$$\Rightarrow 5x = \frac{150}{8} \times 5 = 93.75 \text{ किमी/घंटा}$$

पहली ट्रेन की गति (किमी/घंटा में) = 93.75 किमी/घंटा

58. D

Sol. कक्षा A और B में कुल छातरों की संख्या = 72

A में छातरों की संख्या B की तुलना में 40% अधिक है।

$$\Rightarrow A = B + \frac{40B}{100} = \frac{7B}{5}$$

$$\text{अब, } A + B = 72$$

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

$$\Rightarrow 12B = 360$$

$$\Rightarrow B = 30$$

$$\text{अतः, } A = 72 - B = 72 - 30 = 42$$

A और B में सभी छातरों के औसत अंक 58 हैं।

A और B में सभी छातरों के अंकों का योग = $58 \times 72 = 4176$

माना A में छातरों के औसत अंक = x

माना B में छातरों के औसत अंक = y

B में छातरों के औसत अंक A में छातरों के औसत अंक से 50% अधिक हैं।

$$y = x + \frac{50x}{100} = \frac{3}{2}x$$

अब, $42x + 30y = 4176$

$$\Rightarrow 42x + 30\left(\frac{3}{2}x\right) = 4176$$

$$\Rightarrow 87x = 4176$$

$$\Rightarrow x = 48$$

अतः, A में छात्रों के औसत अंक = 48

59. D

Sol. माना x, y और z तीन धनात्मक संख्याएँ हैं।

उनमें से किन्हीं दो का औसत तीसरी संख्या में जोड़ दिया जाता है, परिणामी योग 154, 148 और 132 है।

$$x + \frac{y+z}{2} = 154 \dots\dots\dots(1)$$

$$y + \frac{x+z}{2} = 148 \dots\dots\dots(2)$$

$$z + \frac{x+y}{2} = 132 \dots\dots\dots(3)$$

(1), (2) और (3) को जोड़ने पर

$$\Rightarrow (x + y + z) + \frac{(2x+2y+2z)}{2} = 434$$

$$\Rightarrow 2(x + y + z) = 434$$

$$\Rightarrow (x + y + z) = 217$$

अतः मूल तीन संख्याओं का योग = 217

60. B

Sol. एक राशि चक्रवृद्धि ब्याज की एक निश्चित दर से 10 वर्षों में दोगुनी हो जाती है।

माना मूलधन = P रुपये

राशि = 2P रूपये

$$\text{राशि} = P \left(1 + \frac{dr}{100} \right)^{\text{समय}}$$

$$\Rightarrow 2P = P \left(1 + \frac{d}{100}\right)^{10}$$

माना समान राशि x वर्ष में आठ गुना हो जाती है

$$\Rightarrow 8P = P \left(1 + \frac{25}{100}\right)^x$$

(1) से

$$\Rightarrow 8 = (2)^{\frac{x}{10}}$$

$$\Rightarrow 2^3 = (2)^{\frac{x}{10}}$$

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

$$\Rightarrow x = 30$$

अतः समान राशि 30 वर्षों में आठ गना हो जाती है।

61. A

Sol. यदि साधारण ब्याज की वार्षिक दर 8% से बढ़कर $12\frac{1}{2}\%$ हो जाती है, तो एक व्यक्ति की वार्षिक आय में ₹639 की वृद्धि होती है।

माना मूलधन = P रुपये

$$\Rightarrow \left(\frac{25}{3} \% - 8 \% \right) \text{ का } P = 639$$

$$\Rightarrow \left(\frac{9}{2} \% \right) \text{ का } P = 639$$

$$\Rightarrow P = 639 \times \frac{200}{9} = 14200 \text{ रुपये}$$

मलधन = 14200 रुपये

62. D

Sol. 'A' एक कार्य का 40% भाग 6 दिनों में पूरा कर सकता है

$$\text{कार्य को पूरा करने में A द्वारा लिए गए दिनों की संख्या} = \frac{100}{40} \times 6 = 15 \text{ दिन}$$

'B' कार्य को $7\frac{1}{2}$ दिनों में पूरा कर सकता है।

$$\Rightarrow 7\frac{1}{2} = \frac{15}{2} \text{ दिन}$$

माना कुल कार्य = LCM (15,15) = 15 इकाई

$$A \text{ की दक्षता} = \frac{15}{15} = 1 \text{ इकाई/दिन}$$

$$B \text{ की दक्षता} = \frac{\frac{15}{15}}{2} = 2 \text{ इकाई/दिन}$$

$$A \text{ और } B \text{ की एक साथ दक्षता} = 1 + 2 = 3 \text{ इकाई/दिन}$$

$$A \text{ और } B \text{ द्वारा एक साथ कार्य को पूरा करने में लिए गए दिनों की संख्या} = \frac{15}{3} = 5 \text{ दिन}$$

63. D

Sol. वस्तु का अंकित मूल्य = ₹5,450

$$\text{छूट} = 5450 \times \frac{15}{100} = 817.5 \text{ रुपये}$$

$$\text{वस्तु का विक्रय मूल्य} = ₹5,450 - 817.5 = 4632.5 \text{ रुपये}$$

$$\text{लाभ} = 15\%$$

$$\text{लागत मूल्य} = 4632.5 \times \frac{100}{(100+15)} = 4028.26 \approx 4028$$

64. B

Sol. जब एक वस्तु ₹388 में बेची जाती है, तो 3% की हानि होती है।

$$\text{वस्तु का क्रय मूल्य} = 388 \times \frac{100}{(100-3)} = 400 \text{ रुपये}$$

$$\text{यदि लाभ} = 18\%$$

$$\text{विक्रय मूल्य} = 400 \times \frac{118}{(100)} = 472 \text{ रुपये}$$

65. C

Sol. दो बाइकों के क्रय मूल्य का योग = ₹50,000

$$\text{माना पहली बाइक क्रय मूल्य} = ₹x$$

$$\text{दूसरी बाइक क्रय मूल्य} = ₹(50000 - x)$$

पहली बाइक को 20% के लाभ पर और दूसरी बाइक को 20% की हानि पर बेचा गया।

$$\text{पहली बाइक का विक्रय मूल्य} = x \times \frac{120}{(100)} = 1.2x \text{ रुपये}$$

$$\text{दूसरी बाइक विक्रय मूल्य} = (50000 - x) \times \frac{80}{(100)} \text{ रु.} = (40000 - 0.8x) \text{ रु.}$$

विक्रय मूल्य समान हैं

$$\Rightarrow 1.2x = (40000 - 0.8x)$$

$$\Rightarrow 2x = 40000$$

$$\Rightarrow x = 20000 \text{ रु.}$$

$$\text{दूसरी बाइक का क्रय मूल्य (₹ में)} = 50000 - 20000 = 30000 \text{ रु.}$$

66. B

Sol. $0.2 \div 0.025 + 39 + 0.92 \div 0.2 \times 5 - 4.9 \div 0.07$

BODMAS के नियम का प्रयोग करने पर:

$$\Rightarrow 8 + 39 + 4.6 \times 5 - 70$$

$$\Rightarrow 47 + 23 - 70 = 0$$

67. B

Sol. दो संख्याओं का एचसीएफ 6 है और उन्हीं दो संख्याओं का एलसीएम 54 है

दो संख्याओं का गुणनफल = HCF × LCM

$$\Rightarrow \text{दो संख्याओं का गुणनफल} = 6 \times 54 = 324$$

$$\text{इन संख्याओं के गुणनफल का वर्गमूल} = \sqrt{324} = 18$$

68. A

$$\text{Sol. } \frac{\frac{3}{7} + 1\frac{2}{3} \times 6 - \left(3\frac{1}{2} + \frac{3}{5} \right) \text{का } \frac{2}{3}}{\frac{1}{7} \left(4 + \frac{1}{5} \right) \text{का } 10} - 3$$

BODMAS के नियम का प्रयोग करने पर:

$$\Rightarrow \frac{\frac{3}{7} + \frac{5}{3} \times 6 - \left(\frac{7}{2} + \frac{3}{5} \right) \text{का } \frac{2}{3}}{\frac{1}{7} \left(4 + \frac{1}{5} \right) \text{का } 10} - 3$$

$$\Rightarrow \frac{\frac{3}{7} + \frac{5}{3} \times 6 - \left(\frac{7}{2} + \frac{21}{45} \right) \text{का } \frac{2}{3}}{\frac{1}{7} \left(4 + 2 \right) - 3}$$

$$\Rightarrow \frac{\frac{3}{7} + \frac{5}{3} \times 6 - \left(\frac{7}{2} + \frac{7}{15} \right) \text{का } \frac{2}{3}}{\frac{2}{7} - 3}$$

$$\Rightarrow \frac{\frac{3}{7} + \frac{5}{3} \times 6 - \left(\frac{15}{2} \right) \text{का } \frac{2}{3}}{\frac{2}{7} - 3}$$

$$\Rightarrow \frac{\frac{3}{7} + 10 - (5)}{\frac{2}{7} - 3}$$

$$\Rightarrow \frac{\frac{3}{7} + 5}{\frac{-19}{7}}$$

$$\Rightarrow \frac{\frac{38}{7}}{\frac{-19}{7}} = -2$$

69. C

Sol. जब 21, 22, 60 और 64 में से प्रत्येक से x घटाया जाता है, तो इस क्रम में प्राप्त संख्याएँ समानुपात में होती हैं।

$$\Rightarrow (21 - x), (22 - x), (60 - x) \text{ तथा } (64 - x) \text{ समानुपात में हैं}$$

$$\Rightarrow (21 - x)(64 - x) = (22 - x)(60 - x)$$

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

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

$$\Rightarrow 3x = 24$$

$$\Rightarrow x = 8$$

अब, $(x + 4)$ तथा $\left(\frac{x}{2} - 1\right)$ के बीच माध्य आनुपातिक =

$$\sqrt{(x + 4)\left(\frac{x}{2} - 1\right)} = \sqrt{(8 + 4)\left(\frac{8}{2} - 1\right)} = \sqrt{12 \times 3} = 6$$

70. C

Sol. एक विद्यालय में लड़कों और लड़कियों का अनुपात 35:39 है।

माना विद्यालय में लड़कों की संख्या = $35x$

विद्यालय में लड़कियों की संख्या = $39x$

विद्यालय में लड़कों और लड़कियों का औसत 740 है।

विद्यालय में कुल विद्यार्थियों की संख्या = $740 \times 2 = 1480$

$$\Rightarrow 35x + 39x = 1480$$

$$\Rightarrow 74x = 1480$$

$$\Rightarrow x = 20$$

अतः, विद्यालय में लड़कों की संख्या = $35x = 35 \times 20 = 700$

71. B

Sol. 'A' एक कार्य को 15 दिनों में पूरा कर सकता है और 'B' उसी कार्य को 20 दिनों में पूरा कर सकता है।

माना कुल कार्य = LCM (15, 20) = 60 इकाई

$$A \text{ की दक्षता} = \frac{60}{15} = 4 \text{ इकाई/दिन}$$

$$B \text{ की दक्षता} = \frac{60}{20} = 3 \text{ इकाई/दिन}$$

A और B द्वारा एक साथ पूरे कार्य को पूरा करने में लिए गए दिनों की संख्या = $\frac{60}{7}$ दिन

A और B द्वारा मिलकर 70% कार्य को पूरा करने में लिए गए दिनों की संख्या = $\frac{70}{100} \times \frac{60}{7} = 6$ दिन

72. D

Sol. एक अपरिष्कृत डेटा आरोही क्रम में है, अर्थात् 3, 4, 7, x, x + 1, 12, 13, 15.

पदों की कुल संख्या (n) = 8

$$\text{माध्यक} = \frac{\left(\frac{n}{2}\right)^\text{वां पद} + \left(\frac{n}{2}+1\right)^\text{वां पद}}{2} = \frac{\left(\frac{8}{2}\right)^\text{वां पद} + \left(\frac{8}{2}+1\right)^\text{वां पद}}{2} = \frac{(4)^\text{वां पद} + (5)^\text{वां पद}}{2} = \frac{x+x+1}{2} = \frac{2x+1}{2}$$

$$\text{अंत में, } \frac{2x+1}{2} = 9.5$$

$$\Rightarrow 2x + 1 = 19$$

$$\Rightarrow 2x = 18$$

$$\Rightarrow x = 9$$

73. D

Sol. एक टैंक 25 मीटर लंबा, 12 मीटर चौड़ा और 6 मीटर गहरा है।

इसकी दीवारों और तल का सतही क्षेत्रफल = $2(l + b)h + lb =$

$$2(25 + 12)6 + 25 \times 12 = 444 + 300 = 744 \text{ मी}^2$$

इसकी दीवारों और तल पर ₹10 प्रति वर्ग मीटर के हिसाब से प्लास्टर करने की लागत (₹ में) = $744 \times 10 = 7440$ रुपये

74. C

Sol. माना कुल मतदाताओं की संख्या = 100

60% मतदाता पुरुष हैं और शेष महिलाएं हैं।

$$\text{पुरुष मतदाताओं की संख्या} = \frac{60}{100} \times 100 = 60$$

$$\text{महिला मतदाताओं की संख्या} = 100 - 60 = 40$$

40% पुरुष निरक्षर हैं और 25% महिलाएँ साक्षर हैं।

$$\text{निरक्षर पुरुष मतदाताओं की संख्या} = \frac{40}{100} \times 60 = 24$$

$$\text{साक्षर महिला मतदाताओं की संख्या} = \frac{25}{100} \times 40 = 10$$

$$\text{अभीष्ट प्रतिशत} = \frac{24-10}{10} \times 100 = 140\%$$

75. C

Sol. माना आयत की लंबाई = 100 इकाई

एक आयत की लंबाई में 40% की वृद्धि की जाती है।

$$\text{आयत की परिणामी लंबाई} = 100 + 100 \times \frac{40}{100} = 140 \text{ इकाई}$$

$$\text{आयत की लंबाई का अनुपात} = 100 : 140 = 5 : 7$$

यदि आयत का क्षेत्रफल स्थिर है तो आयत की लंबाई आयत की चौड़ाई के व्युत्क्रमानुपाती होती है।

$$\text{आयत की चौड़ाई का अनुपात} = 7 : 5$$

$$\text{अभीष्ट प्रतिशत} = \frac{7-5}{7} \times 100 = 28.6\%$$

76. D

Sol. * माता-पिता एवं वरिष्ठ नागरिक भरण-पोषण एवं कल्याण अधिनियम, 2007 वरिष्ठ नागरिकों के भरण-पोषण और कल्याण के लिए कुशल प्रावधान प्रदान करता है।

* यह अधिनियम भारत सरकार के सामाजिक न्याय एवं अधिकारिता मंत्रालय द्वारा शुरू किया गया था।

* अधिनियम की धारा 2 (a) "बच्चों" की परिभाषा प्रदान करती है जिसमें "बच्चों" के रूप में पुत्र, पुत्री, पौत्री तथा पौत्र शामिल है।

77. A

Sol. * गोदावरी नदी भारत की प्रायद्वीपीय नदियों में सबसे बड़ी है।

* गोदावरी का उदगम महाराष्ट्र के नासिक जिले में त्रयंबक पहाड़ियों के पास पश्चिमी घाट में 1,067 मीटर की ऊंचाई पर होता है।

* गोदावरी बेसिन का लगभग 50% महाराष्ट्र में स्थित है।

* गोदावरी बेसिन महाराष्ट्र (48.6%), तेलंगाना (लगभग 20%), मध्य प्रदेश (10.0%), आंध्र प्रदेश (लगभग 3.4%), छत्तीसगढ़ (10.9%), ओडिशा (5.7%) और कर्नाटक (1.4%) राज्यों में फैली हुई है।

* गोदावरी बेसिन दक्कन के पठार में पड़ता है।

78. D

Sol. * जुलाई 2020 में इंग्लैंड के टेस्ट क्रिकेट कप्तान जो रूट (Joe Root) द्वारा बेन स्टोक्स को "मिस्टर इनक्रेडिबल" के रूप में वर्णित किया गया।

* उन्हें 2019 और 2020 में विजडन लीडिंग क्रिकेटर इन द वर्ल्ड (Wisden Leading Cricketer in the World) नामित किया गया था।

* उन्होंने 2019 में सर्वश्रेष्ठ पुरुष क्रिकेटर का ICC पुरस्कार जीता।

* उन्हें 2019 BBC स्पोर्ट्स पर्सनेलिटी ऑफ़ द ईयर के रूप में भी नामित किया गया था।

79. B

Sol. * अवधि किसान सभा का गठन 17 अक्टूबर 1920 ई. में हुआ।

* इसकी स्थापना बाबा रामचंद्र ने प्रतापगढ़ में की थी।

* यह जर्मीदारों और तालुकदारों का विरोध करने के लिए स्थापित किया गया था जिन्होंने अत्यधिक कर और लगान की मांग की थी।

* बाबा राम चंद्र एक भारतीय श्रम संघवादी (इंडियन ट्रेड यूनियन) थे।

* 1919 में उन्होंने जर्मीदारों के खिलाफ पहले किसान विरोध का नेतृत्व किया।

80. C

Sol. * "बॉय: टेल्स ऑफ़ चाइल्डहूड" ब्रिटिश लेखक रोनाल्ड डाहल (Roald Dahl) की आत्मकथात्मक पुस्तक है।

* यह पुस्तक उनके जन्म से लेकर स्कूल छोड़ने तक के जीवन का वर्णन करती है।

* रोनाल्ड डाहल (Roald Dahl) एक ब्रिटिश उपन्यासकार, लघु-कथा लेखक, कवि और पटकथा लेखक थे।

81. D

Sol. * व्यापार, वाणिज्य और समागम की स्वतंत्रता भारतीय संविधान के भाग XLI के तहत अनुच्छेद 301 से 307 में प्रदान की गई है।

* संविधान का भाग XX संविधान के संशोधन से संबंधित है।

* संविधान का भाग X अनुसूचित और जनजातीय क्षेत्रों से संबंधित है।

* संविधान का भाग XV चुनाव (चुनाव आयोग सहित) से संबंधित है।

82. B

Sol. * "रथवा नी घेर" (Rathwa ni Gher) गुजरात की राठवा जनजाति द्वारा होली के अवसर पर किया जाने वाला नृत्य है।

* यह वडोदरा जिले के छोटा उदयपुर (Chota Udaypur), कंवंत (Kanwant) और पविजेटपुर तालुका (Pavijetpur Taluka) (उप-मंडल) और गुजरात के दक्षिण-पूर्वी हिस्सों के पंचमहल जिले के जंबुघोड़ा (Jambughoda), नारुकोट (Narukot), और घोघंबा तालुका (Ghoghamba Taluka) (उप-मंडल) जैसे स्थानों में लोकप्रिय है।

* राठवा जनजाति एक विशिष्ट जनजाति है जो अपनी सबसे प्रचलित और विशिष्ट कला परंपरा पिथौरा (Pithora) दीवार पेंटिंग के लिए जानी जाती है।

* इस जनजाति के पारंपरिक नृत्य को चूम झूम (Chuum Jhum) के नाम से जाना जाता है।

83. A

Sol. * ताजमहल के पूर्वी द्वार के पास शिल्पग्राम में प्रत्येक वर्ष 18 से 27 फरवरी तक ताज महोत्सव मनाया जाता है।

* यह भारत सरकार के पर्यटन विभाग द्वारा आयोजित किया जाता है।

* ताज महोत्सव मुख्य रूप से देश की समृद्ध कला और शिल्प, संस्कृति, व्यंजन, नृत्य व संगीत को बढ़ावा देने के लिए समर्पित है।

* ताजमहल को 1983 में यूनेस्को की विश्व धरोहर स्थल के रूप में नामित किया गया था।

* ताजमहल आगरा (उत्तर प्रदेश) में यमुना नदी के तट पर स्थित है।

* इसे मुगल सम्राट शाहजहाँ ने अपनी तीसरी पत्नी मुमताज महल के स्मारक के रूप में बनवाया था।

84. B

Sol. * 2001-2011 की अवधि के लिए भारत की औसत घातीय वृद्धि दर (exponential growth rate) (जनसंख्या) 1.64% प्रतिवर्ष थी।

* 2001-2011 के दशक के दौरान भारत की जनसंख्या में लगभग 181.46 मिलियन की वृद्धि हुई।

* 2011 की जनगणना के अनुसार साक्षरता दर में 9.21% की वृद्धि हुई।

* पुरुष साक्षरता 82.14% है और महिला साक्षरता 65.46% है।

* दशवर्षीय जनगणना के संचालन की जिम्मेदारी भारत सरकार के गृह मंत्रालय के तहत महापंजीयक और जनगणना आयुक्त, भारत के कार्यालय के पास है।

* भारत के रजिस्ट्रार जनरल और जनगणना आयुक्त की स्थापना 1961 में हुई थी।

85. D

Sol. * कनककुन्नू पैलेस (Kanakakkunnu Palace) केरल के तिरुवनंतपुरम में स्थित है।

* यह भारत का पहला डिजिटल गार्डन है।

* इसे केरल के वनस्पति विज्ञान विभाग के अखिलेश एस.वी.नायर और ए. गंगाप्रसाद विश्वविद्यालय द्वारा बनाया गया था।

* चौमहल्ला पैलेस, अंबर पैलेस (आमेर किला या अंबर किला) और उज्जयंत पैलेस क्रमशः हैदराबाद, तेलंगाना, जयपुर, राजस्थान और अगरतला, तिरपुरा में स्थित हैं।

86. D

Sol. * मदन मोहन मालवीय को सत्यमेव जयते (सत्य की ही जीत होगी) के नारे को लोकप्रिय बनाने का श्रेय दिया जाता है।

- * उन्हें 2014 में भारत रत्न से सम्मानित किया गया था।
- * उन्होंने 1909 और 1933 के बीच चार बार भारतीय राष्ट्रीय कांग्रेस के अध्यक्ष के रूप में कार्य किया।
- * सत्यमेव जयते हिंदू ग्रंथ मुंडक उपनिषद (Mundaka Upanishad) के मंत्र का एक हिस्सा है।
- * इसे 26 जनवरी 1950 को भारत के राष्ट्रीय आदर्श वाक्य के रूप में अपनाया गया था।

87. D

Sol. * दिसंबर 2019 में महाराष्ट्र ने सबसे अधिक जीएसटी संग्रह 16,530 करोड़ रुपये दर्ज किया, इसके बाद कर्नाटक (6,886 करोड़ रुपये) और तमिलनाडु (6,422 करोड़ रुपये) का स्थान रहा।

- * महाराष्ट्र का जीएसटी संग्रह देश में सबसे अधिक है, और यह राज्य सरकार के लिए मुख्य राजस्व अर्जक है।
- * वस्तु एवं सेवा कर (जीएसटी) एक अप्रत्यक्ष कर है।
- * उद्धव ठाकरे (Uddhav Thackeray) महाराष्ट्र के 19वें और वर्तमान मुख्यमंत्री हैं।

88. D

Sol. * भारत के राजेंद्र सिंह को 26 अगस्त 2015 को स्टॉकहोम जल पुरस्कार (Stockholm Water Prize) से सम्मानित किया गया।

- * उन्हें भारतीय गांवों में समुदायों को सशक्त बनाने के लिए उनके अभिनव जल बहाली प्रयासों और असाधारण साहस के लिए सम्मानित किया गया था।
- * उन्हें 2001 में रेमन मैग्सेसे पुरस्कार (Ramon Magsaysay award) से सम्मानित किया गया था।
- * स्टॉकहोम जल पुरस्कार (Stockholm Water Prize) एक वैश्विक पुरस्कार है।
- * इसकी स्थापना 1991 में हुई थी।
- * यह स्टॉकहोम इंटरनेशनल वाटर इंस्टीट्यूट (SIWI) द्वारा प्रतिवर्ष प्रस्तुत किया जाता है।
- * स्टॉकहोम जल पुरस्कार (Stockholm Water Prize) में 150,000 अमरीकी डालर का नकद पुरस्कार और विशेष रूप से डिजाइन की गई मूर्ति शामिल है।

89. D

Sol. * हाइपोथेलेमस पश्च मस्तिष्क का हिस्सा नहीं है।

* यह मस्तिष्क का एक हिस्सा है जो पिट्यूटरी ग्रंथि (pituitary gland) से हार्मोन की मुक्ति सहित कई शारीरिक कार्यों को नियंत्रित करने में महत्वपूर्ण भूमिका निभाता है।

* पश्च मस्तिष्क के तीन मुख्य भाग पॉस, सेरिबेलम, और मेडला ऑबोंगटा हैं।

90. D

Sol. * लाला लाजपत राय को पंजाब के सरकारी के नाम से जाना जाता था।

* वह लाल बाल पाल की तिकड़ी के तीन सदस्यों में से एक थे।

* 1928 में, लाला लाजपत राय ने साइमन कमीशन के खिलाफ एक प्रदर्शन में भाग लिया, जिसके दौरान वे लाठीचार्ज में बुरी तरह घायल हो गए और अंत में 17 नवंबर 1928 को उनकी मृत्यु हो गई।

* 1927 में भारतीय संवैधानिक सुधार के लिए ब्रिटिश सरकार द्वारा साइमन कमीशन का गठन किया गया था।

91. B

Sol. * हैजा एक संक्रामक रोग है जो विब्रियो कोलेरी (Vibrio cholerae) बैक्टीरिया के कारण होता है।

* यह ज्यादातर असुरक्षित जल और असुरक्षित भोजन से फैलता है।

* हैजा के प्राथमिक लक्षण अत्यधिक दस्त और उल्टी हैं।

92. C

Sol. * विकल्प "C" गलत है।

* यकृत उदर गुहा के ऊपरी दाहिने हिस्से में, डायाफ्राम (diaphragm) के नीचे और पेट के ऊपर दाहिनी किडनी और आंतों में स्थित होता है।

* यकृत शरीर की सबसे बड़ी ग्रंथि है।

* यह लाल भूरे रंग का होता है।

93. B

Sol. * भारतीय रिजर्व बैंक द्वारा वर्ष 1999 में 'स्वच्छ नोट नीति' की घोषणा की गई थी।

* इसकी घोषणा आरबीआई के तत्कालीन गवर्नर डॉ. बिमल जालान (Dr. Bimal Jalan) ने जनवरी 1999 में की थी।

* रिजर्व बैंक की स्वच्छ नोट नीति का उद्देश्य नागरिकों को अच्छी गुणवत्ता वाले करेंसी नोट और सिक्के देना है जबकि गंदे नोट प्रचलन से बाहर हो गए।

* 2002 में स्वच्छ नोट नीति के तहत आरबीआई ने बैंकों को मुद्रा नोटों को स्टेपल करना बंद करने की सलाह दी।

94. D

Sol. * 8 अगस्त 1942 को "भारत छोड़ो आंदोलन" के दौरान महात्मा गांधी द्वारा "करो या मरो" का नारा दिया गया।

* "भारत छोड़ो आंदोलन" को अगस्त क्रांति आंदोलन के रूप में भी जाना जाता है।

* इसे 8 अगस्त, 1942 को अखिल भारतीय कांग्रेस कमेटी के बॉम्बे अधिवेशन में लॉन्च किया गया था।

* "भारत छोड़ो आंदोलन" की शुरुआत के बाद जवाहरलाल नेहरू, सरदार वल्लभभाई पटेल, अबुल कलाम आजाद और महात्मा गांधी सहित कई कांग्रेस नेताओं को राजद्रोह के आरोप में जेल में डाल दिया गया था।

95. B

Sol. * हीरे का पूर्ण अपवर्तनांक 2.42 है।

* वायु का अपवर्तनांक औसतन लगभग 1.0003 है।

* जल का अपवर्तनांक 1.33 होता है।

* क्राउन ग्लास और फिलंट ग्लास का अपवर्तनांक क्रमशः 1.52 और 1.65 है।

96. A

Sol. * प्लेटफॉर्म फॉर इफेक्टिव एनफोर्समेंट फॉर नो चाइल्ड लेबर (PENCIL) के प्रभावी प्रवर्तन के लिए मंच शुरू किया गया था।

* इसे केंद्रीय मंत्री राजनाथ सिंह ने 26 सितंबर, 2017 को लॉन्च किया था।

* पेंसिल (PENCIL) एक इलेक्ट्रॉनिक मंच है जिसका उद्देश्य बाल शर्म मुक्त समाज के लक्ष्य को प्राप्त करने में केंद्र, राज्य, जिला, सरकारों, नागरिक समाज और आम जनता को शामिल करना है।

97. A

Sol. * तवा बांध मध्य प्रदेश के होशंगाबाद जिले में स्थित है।

* यह बड़ा जलाशय तवा नदी पर स्थित है।

* तवा जलाशय सतपुड़ा राष्ट्रीय उद्यान और बोरी वन्यजीव अभयारण्य की पश्चिमी सीमा बनाता है।

* उज्जनी, कोयना और ईसापुर बांध महाराष्ट्र में स्थित हैं।

98. A

Sol. * राष्ट्रीय जलमार्ग 1 (NW-1) उत्तर प्रदेश के प्रयागराज से पश्चिम बंगाल में हल्दिया तक पटना और बिहार में भागलपुर होते हुए गंगा नदी के पार जाता है।

* अक्टूबर 1986 में इसे जलमार्ग घोषित किया गया था।

* यह 1,620 किमी लंबा है, जो इसे भारत का सबसे लंबा जलमार्ग बनाता है।

* भारत में 111 आधिकारिक रूप से अधिसूचित अंतर्राष्ट्रीय राष्ट्रीय जलमार्ग (NWs) हैं।

99. C

Sol. * एक्रोबैटिक जिम्नास्टिक ओलंपिक आयोजन नहीं है।

* टोक्यो में 2020 ग्रीष्मकालीन ओलंपिक में जिम्नास्टिक तीन श्रेणियों में आर्टिस्टिक जिम्नास्टिक, रिदमिक जिम्नास्टिक और ट्रैम्पोलिनिंग में आयोजित किया गया था।

100. A

Sol. * धातु अम्ल के साथ किरण करके हाइड्रोजन गैस उत्पन्न करती है और धातु लवण बनाती है।

* यह प्रतिक्रिया धातु + अम्ल → नमक + हाइड्रोजन के लिए सामान्य शब्द समीकरण है।

* अतः विकल्प A सही उत्तर है।