

SSC MTS 2020 Tier I : 14

Oct S3

Mock Test Questions & Solutions

Mock Test Solutions in English

Questions

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

A system of government in which power is held by the people

- A. Bureaucracy
 - B. Autocracy
 - C. Democracy
 - D. Monarchy

2. Select the INCORRECTLY spelt word.

- A. Adress
 - B. Evacuate
 - C. Advertisement
 - D. Apartment

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

RECEIVE

- | | |
|-----------|------------|
| A. Obtain | B. Give |
| C. Follow | D. Abandon |

- 4. Select the INCORRECTLY spelt word.**

- | | |
|--------------|----------------|
| A. Professor | B. Confesion |
| C. Possible | D. Intelligent |

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

Restaurants are _____ to new ways of attracting customers these days.

- A. displaying
 - B. existing
 - C. living
 - D. adapting

6. 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.'

These days I ate lots of fruits and green vegetables to boost my immunity.

- | | |
|-----------|-----------------------------|
| A. eating | B. No substitution required |
| C. eat | D. eaten |

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

The baby were not able to eat anything due to stomach ache.

- A. to eat
- B. due to
- C. The baby were
- D. not able

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

See eye to eye

- A. disturb
- B. agree
- C. quarrel
- D. smile

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

We received all the health updates but were not sure whether its accurateness.

- A. about they are accurate
- B. whether how they were accurate
- C. about their accuracy
- D. No substitution required

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

You have to submit a copy of _____ school leaving certificate.

- A. hers
- B. yours
- C. theirs
- D. your

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

TREMENDOUS

- A. Minute
- B. Fortunate
- C. Huge
- D. Eligible

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

In spite of my best efforts, I could not concentrated on my studies.

- A. In spite of
- B. my best efforts
- C. could not concentrated
- D. on my studies

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

I always stays at a hotel which is near my work place.

REGULAR

- | | |
|--------------|----------|
| A. Agreeable | B. Usual |
| C. Recent | D. Fake |

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

Drawings or writing scribbled on walls in public places

- A. Sketches
 - B. Graffiti
 - C. Posters
 - D. Hoardings

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

Be over the moon

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

You studied mathematics in Class X, _____ you?

- A. haven't
 - B. hadn't
 - C. aren't
 - D. didn't

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

The young businessman's life was saved when he is pull out from his burning car by passers-by.

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

These days you get very good deals if you buy consumer goods online.

- A. objects
 - B. deals
 - C. spaces
 - D. covers

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

PROMINENT

- | | |
|------------------|--------------|
| A. inconspicuous | B. dangerous |
| C. crazy | D. evident |

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

Delhi recorded a spell of light rain (1) _____ Friday evening with humidity levels remaining on the higher side throughout (2) _____ day. The IMD has forecast moderate rain on Saturday but some areas (3) _____ to get heavy rain. An official also said that the next seven days are (4) _____ to see good rain. The municipal corporation has been advised to remain prepared for water logging in (5) _____ areas of the city.

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

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

- A. every
 - B. any
 - C. the
 - D. a

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

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

- A. likelihood
 - B. liked
 - C. likely
 - D. like

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

- A. middle
 - B. high rise
 - C. low lying
 - D. uplifted

26. If in a coding system TEACHER is coded as 4235726 and STRENGTH is coded as 8462947, then how will ENTRENCH be coded in the same coding system?

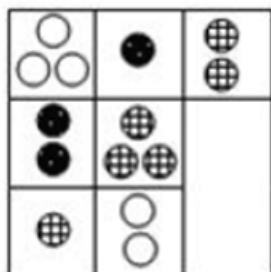
- | | |
|-------------|-------------|
| A. 29642965 | B. 24922457 |
| C. 46294675 | D. 29462957 |

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

β&Q@f

- A. പിന്നുള്ള ഒരു വാക്ക്
B. ദിവസത്തിലെ ഏറ്റവും മാറ്റം കുറഞ്ഞ പേര്
C. £ @ Q & β
D. കാര്യാലയം

28. Identify the option figure the completes the following pattern.



- A. 

B. 

C. 

D. 

29. Select the number triad that is analogous to the given triads.

(7, 40, 9), (11, 108, 13)

- A. (4, 12, 5) B. (13, 123, 24)
C. (9, 67, 10) D. (8, 58, 6)

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

26, 28, 24, 30, 22, ?

31. 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.

LATITUDE : OZGRGFVV :: DUSTMITE : _____.

- | | |
|-------------|--------------|
| A. VFGGMRFV | B. WGHHNNSGW |
| C. WFHGNRGV | D. XGIHOSHW |

32. Select the correct alternative to indicate the sequential order of the following words as they appear in the dictionary.

- 1) Identify
- 2) Identifier
- 3) Identifiable
- 4) Identikit
- 5) Identity

- | | |
|--------------|--------------|
| A. 5-4-3-2-1 | B. 2-3-1-4-5 |
| C. 3-2-1-4-5 | D. 2-1-3-5-4 |

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

Statements:

All televisions are radios.

Some radios are transistors.

Conclusions:

- I. All radios are televisions.
 - II. Some televisions are transistors.
- | | |
|--------------------------------|---|
| A. Only conclusion I follows. | B. Neither conclusion I nor II follows. |
| C. Only conclusion II follows. | D. Both conclusions I and II follow. |

Apple, Fruits, Carrot

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

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

Statements:

Some sparrows are kites.

All kites are crows.

Conclusions

- I. All sparrows are crows.

II. Some crows are sparrows.

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

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

TQN, JGD, ZWT, ?

- A. PMJ
B. QMK
C. QNK
D. OLI

39. If in a coding system NUISANCE is coded as 134 and ERASURE is coded as 106, then how will PHILLIPS be coded in the same coding system?

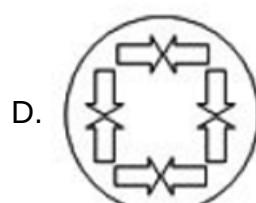
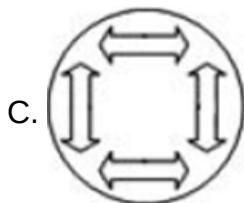
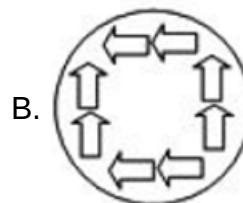
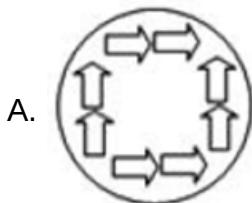
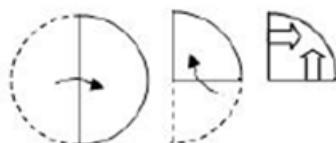
- A. 99
B. 119
C. 95
D. 115

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

8, 18, 26, 32, 36, ?

- A. 42
B. 40
C. 38
D. 36

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

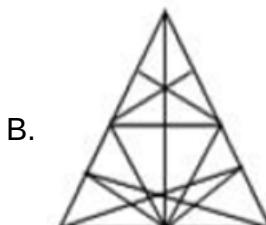
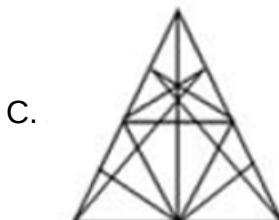
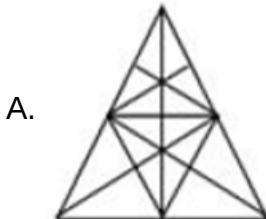


42. Select the option figure that will replace question mark(?) in the following figure series.

$$78^* 26^* 4^* 13^* 28 = 58$$

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

43. Identify the option in which following figure is embedded. (Rotation is not applicable):



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

Hen : Chick :: Dog :

- | | |
|---------|----------|
| A. Baby | B. Puppy |
| C. Calf | D. Cub |

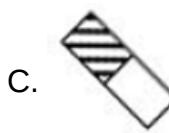
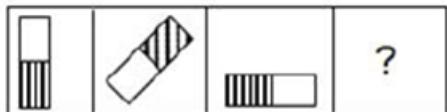
45. Five persons, A, B, C, D, and E are sitting on a bench all facing the park. D is second left of C but immediate right of B. If E is on the extreme left of the bench and sitting adjacent to B, what is the exact location of A?

- A. Right of E
 - B. Left of C
 - C. Left of D
 - D. Right of C

46. A taxi car has six seats, three in front row and three in back row. Those who board the car first, go to back seat and the seats are occupied from right to left on first come first serve basis. Y was 1st to board the car and U was the last one. Z was 2nd last to board the car and was seated in front of V. If W is seated at the left of V, what is the boarding order of X?

- A. 3rd
 - B. 5th
 - C. 2nd
 - D. 4th

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



48. Which two numbers and signs can be interchanged so as to balance the given equation?

$$18 \times 7 \div 36 + 78 - 14 = 86$$

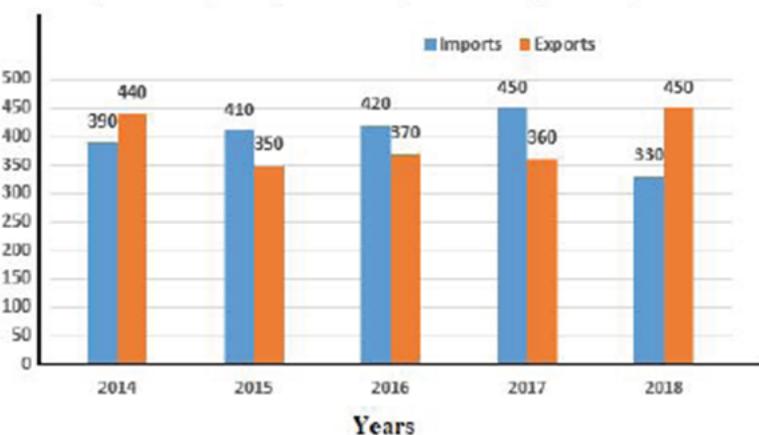
49. In a certain code language if POWERCUT is written as TRAHVFYW, then how will TRACKING be written in the same code language?

50. In a certain code language if COMMITAL is written as ACILMMOT, then how will INTEGRAL be written in the same code language?

51. The radius of a cylinder is reduced to 50% of its actual radius. If its volume remains the same as before,

then its height becomes k times of the original height. The value of k is:

Imports & Exports (in ₹ Crores) of a Country over 5 years



In which year are the exports of the country 87.5% of the average imports during 2016, 2017 and 2018?

- A. Rs. 20,238 B. Rs. 18,248
C. Rs. 19,907 D. Rs. 18,579

64. The ratio of the incomes of X and Y is 2:3, and the ratio of their expenditures is 4:5 . If X and Y save Rs. 5,000 and Rs. 17,500, respectively, then what is the income (in Rs.) of X?
A. 55,000 B. 50,000
C. 60,000 D. 45,000

65. Pipes A and B can fill a tank in 18 minutes and 30 minutes, respectively. Pipe C, attached to the tank, can drain off 125 litres of water per minute. If all the pipes are opened together, the tank is filled in 45 minutes. The capacity of the tank, in litres, is
A. 1500 B. 1375
C. 1875 D. 2000

66. A sum of Rs. 16,200 was divided among A, B and C. Had A received Rs. 1,200 less, the ratio of the shares would have been 3:4:5. What was A's share, initially?
A. Rs. 4,950 B. Rs. 6,250
C. Rs. 3,750 D. Rs. 6,050

67. The value of $2\frac{1}{4} \div 1\frac{1}{2}$ of $\left[4\frac{1}{6} - \left(\frac{17}{21} + \frac{4}{3} \times 2\frac{1}{8} \div 1\frac{1}{6} \text{ of } \frac{3}{4} - \frac{5}{7} \right) \right]$
A. $3\frac{1}{3}$ B. $1\frac{1}{4}$
C. $\frac{5}{9}$ D. $1\frac{4}{5}$

68. The average weight of students in a class is 58.5 kg. Four more students having weights 49 kg, 51 kg, 54 kg and 68 kg join the class. Now the average weight of all the students in the class is 58.3 kg. The number of students in the class, initially, was:
A. 46 B. 54
C. 56 D. 44

69. There are three positive integers. If the average of any two of them is added to the third, the resulting sums are 181, 172 and 160 . The average of the given integers is:
A. 78.5 B. 85.5
C. 86 D. 84

70. A man can row a boat 78 km downstream and 42 km upstream in 6 hours. The speed of the stream is 6 km/h. In how many hours can he row the boat a distance of 100 km in still water?
A. 5 B. 4

C. 6

D. 8

71. The value of $\frac{1}{5} \div \frac{3}{10}$ of $\frac{4}{9} - \frac{4}{5} \times 1\frac{1}{9} \div \frac{8}{15} + \frac{3}{4} + \frac{3}{4} \div \frac{1}{2}$ is:
- A. $\frac{25}{12}$ B. $\frac{11}{12}$
C. $\frac{17}{12}$ D. $\frac{7}{12}$
72. A shopkeeper bought an article at $\frac{4}{5}$ of its marked price and sold it at 16% more than the marked price. His gain percentage is:
- A. 42% B. 48%
C. 40% D. 45%
73. Last year, 300 students appeared an examination from school A, and $33\frac{1}{3}\%$ of the students failed. In the same year, 480 students appeared for the examination from school B, 60% of the total students from schools A and B passed. What is the fail percentage of students from school B?
- A. $43\frac{3}{4}\%$ B. $40\frac{2}{3}\%$
C. $42\frac{1}{3}\%$ D. $44\frac{1}{6}\%$
74. When 3820, 4672 and 6163 are divided by the greatest number X , the remainder in each case is the same, what is the quotient when X divides 1035?
- A. 6 B. 8
C. 4 D. 3
75. A can do a certain work in 12 days and B can do it in 18 days. They worked together for 4 days. The remaining work was completed by C alone in 6 days. If they get Rs. 3,240 for the whole work, then the share of C in this amount will be:
- A. Rs. 1,080 B. Rs. 1,440
C. Rs. 1,260 D. Rs. 1,170
76. Who among the following has served as the Deputy Chairman of the Planning Commission of India?
- A. Pranab Mukherjee B. Ramaswamy Venkataraman
C. Pratibha Patil D. Giani Zail Singh
77. Who among the following is the 'Visitor' to all central universities of India?
- A. President of India B. Chairman, University Grants Commission
C. Union Minister of Human Resources Development D. Vice-President of India

Solutions

1. C

Sol.

Bureaucracy = a system for controlling or managing a country, company, or organization that is operated by a large number of officials employed to follow rules carefully.

Autocracy = government by a single person or small group that has unlimited power or authority, or the power or authority of such a person or group.

Democracy = the belief in freedom and equality between people, or a system of government based on this belief, in which power is either held by elected representatives or directly by the people themselves.

Monarchy = a country that has a king or queen.

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

2. A

Sol.

Option A has incorrectly spelt word and its correct spelling is '**address**' which means the number of the house, name of the road, and name of the town where a person lives or works, and where letters can be sent.

Meaning of other words are :-

Evacuate = to move people from a dangerous place to somewhere safe.

Advertisement = a picture, short film, song, etc. that tries to persuade people to buy a product or service, or a piece of text that tells people about a job, etc.

Apartment = a set of rooms for living in, especially on one floor of a building.

3. B

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

Receive = to get or be given something.

E.g. :- Did you receive my letter?

Obtain = to get something, especially by asking for it, buying it, working for it, or producing it from something else.

Give = to offer something to someone, or to provide someone with something.

E.g. :- She gave us a set of saucepans as a wedding present.

Follow = to move behind someone or something and go where he, she, or it goes.

Abandon = We had to abandon the car.

Hence, option B is the correct answer.

4. B

Sol.

Option B has incorrectly spelt word i.e. '**confession**' which means the act of admitting that you have done something wrong or illegal.

Meaning of other words are :-

Professor = a teacher of the highest rank in a department of a British university, or a teacher of high rank in an American university or college.

Possible = able to be done or achieved, or able to exist.

Intelligent = showing intelligence, or able to learn and understand things easily.

5. D

Sol. The given blank needs to be filled with a verb.

Let us understand the meaning of the given words :-

- * **Displaying** = to arrange something or a collection of things so that it can be seen by the public.
- * **Existing** = used to refer to something that exists now.
- * **Living** = alive now.
- * **Adapting** = to become familiar with a new situation.
- * E.g. :- To remain competitive the company has to be able to adapt to the changing marketplace.

Here, we are talking about restaurants, who are becoming familiar with new things.

Thus, '**adapting**' is the most suited one.

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

6. C

Sol. The underlined part is grammatically incorrect.

'These days' means in the present age; nowadays.

So, the tense of the given sentence should be simple present tense.

We use the **simple present tense** when an action is happening right now, or when it happens regularly.

We use base form of the verb after the given subject 'I'.

And it should be 'eat'.

Thus, '**eat**' is the most suited one.

The correct sentence is :- **These days I eat lots of fruits and green vegetables to boost my immunity.**

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

7. C

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

The error is related to subject verb agreement.

The subject of the given sentence is 'baby' which is singular in nature.

So, we need singular form of verb after it.

And that will be 'was' not 'were'.

Thus, **replace 'were' with 'was'** to make the sentence grammatically correct.

The correct sentence is :- **The baby was not able to eat anything due to stomach ache.**

8. B

Sol.

The idiom '**see eye to eye**' means to have or come to the same opinion or point of view.

E.g. :- The two did not see eye to eye on certain political issues.

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

9. C

Sol.

The sentence is grammatically incorrect.

'Whether' is a conjunction which means (used especially in reporting questions and expressing doubts) if, or not.

'About' means on the subject of, or connected with.

Here, we need preposition, and that preposition should be 'about'.

Moreover, we need plural pronoun for plural noun 'updates'.

And that pronoun should be 'their'.

Also, 'accuracy' should be used in place of 'accurateness'.

Thus, '**about their accuracy**' is the most suited one.

The correct sentence is :- **We received all the health updates but were not sure about their accuracy.**

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

10. D

Sol. The given blank needs to be filled with a pronoun.

Let us understand the meaning of the given pronouns.

* **Hers** = the one(s) belonging to or connected with a woman, girl, or female animal that has been mentioned or is known about.

* **Yours** = the one(s) belonging to or connected with the person or group of people being spoken or written to.

* **Theirs** = the one(s) belonging to or connected with them.

* **Your** = belonging or relating to the person or group of people being spoken or written to.

Here, we need a possessive adjective and that will be 'your'.

Thus, '**your**' is the most suited one.

The correct sentence is :- **You have to submit a copy of your school leaving certificate.**

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

11. C

Sol.

Let us understand the meaning of the given words :-

Tremendous = very great in amount or level, or extremely good.

E.g. :- They were making a tremendous amount of noise last night.

Minute = one of the 60 parts that an hour is divided into, consisting of 60 seconds.

Fortunate = lucky.

Huge = extremely large in size or amount.

E.g. :- They live in a huge house.

Eligible = having the necessary qualities or satisfying the necessary conditions.

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

12. C

Sol.

The sentence is grammatically incorrect and **the error lies in option C**.

The error is related to verb.

We need base form of the verb after the modal verb.

Here, we are given with past form of the verb i.e. 'concentrate'.

Thus, **replace 'concentrated' with 'concentrate'** to make the sentence grammatically correct.

The correct sentence is :- **In spite of my best efforts, I could not concentrate on my studies.**

13. D

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

'Always' in the given sentence shows that the author does something every time or all the time.

So, the tense of the given sentence should be simple present tense.

We use the **simple present tense** when an action is happening right now, or when it happens regularly.

We put base form of the verb after the mentioned subject 'I'.

And it should be in its plural form as, we put plural verb after 'I'.

Thus, '**always stay**' is the most suited one.

The correct sentence is :- **I always stay at a hotel which is near my work place.**

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

14. B

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

Regular = happening or doing something often.

E.g. :- Professional athletes make regular appearances on TV.

Agreeable = pleasant or pleasing.

Usual = normal; happening, done, or used most often.

E.g. :- I went to bed at my usual time.

Recent = happening or starting from a short time ago.

Fake = an object that is made to look real or valuable in order to deceive people.

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

15. B

Sol.

Sketches = a simple, quickly made drawing that does not have many details.

Graffiti = words or drawings, especially humorous, rude, or political, on walls, doors, etc. in public places.

Posters = a large, printed picture, photograph, or notice that you stick or pin to a wall or board, usually for decoration or to advertise something.

Hoardings = a very large board on which advertisements are shown, especially at the side of a road.

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

16. C

Sol.

The idiom '**be over the moon**' means very pleased about something.

E.g. :- She's over the moon about her new job.

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

17. D

Sol.

The given blank needs to be filled with question tag.

We use question tags when we expect the listener to agree with our statement.

In this case, when the statement is positive, we use a negative question tag. And when the statement is negative, we use a positive question tag.

Here, the given sentence is a positive statement, and we need a negative question tag.

The given is in simple past tense, so we should use 'did' in the tag part.

Thus, "**didn't**" is the most suited one.

The correct sentence is :- **You studied mathematics in Class X, didn't you?**

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

18. A

Sol. The sentence is grammatically incorrect and **the error lies in option A.**

The error is related to tense.

The given sentence is in simple past tense.

The simple past tense is used to talk about a completed action in a time before now.

The time of the action can be in the recent past or the distant past and action duration is not important.

So, we should write past form of auxiliary verb 'is' and that should be 'was'.

Thus, **replace 'is' with 'was'** to make the sentence grammatically correct.

The correct sentence is :- **The young businessman's life was saved when he was pull out from his burning car by passers-by.**

19. B

Sol.

The given blank needs to be filled with a **noun**.

Let us understand the meaning of the given words :-

* **Objects** = a thing that you can see or touch but that is not usually a living animal, plant, or person.

* **Deals** = an agreement or an arrangement, especially in business.

* **Spaces** = an empty area that is available to be used.

* **Covers** = to put or spread something over something, or to lie on the surface of something.

Here, we are talking about agreement.

Thus, '**deals**' is the most suited one.

The correct sentence is :- **These days you get very good deals if you buy consumer goods online.**

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

20. A

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

Prominent = very well-known and important.

E.g. :- The government should be playing a more prominent role in promoting human rights.

Inconspicuous = not easily or quickly noticed or seen, or not attracting attention.

E.g. :- This type of bird is very inconspicuous because of its dull feathers.

Dangerous = able or likely to cause harm or death, or unpleasant problems.

Crazy = stupid or not reasonable.

Evident = easily seen or understood.

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

21. C

Sol. The passage is all about Delhi weather condition.

Let us understand the meaning of the given words :-

* **In** = inside a container, place, or area, or surrounded or closed off by something.

* **At** = used to show an exact position or particular place.

* **On** = used to show when something happens.

* **For** = intended to be given to.

Whenever we talk about the day when something happens.

We use preposition 'on' before it.

E.g. :- Hair salons don't usually open on Sundays.

Thus, '**on**' is the most suited one.

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

22. C

Sol. The passage is all about Delhi weather condition.

Let us understand the meaning of the given words :-

* **Every** = used when referring to all the members of a group of three or more.

* **Any** = some, or even the smallest amount or number of.

* **The** = used before nouns to refer to particular things or people that have already been talked about or are already known or that are in a situation where it is clear what is happening.

* **A** = used before a noun to refer to a single thing or person that has not been mentioned before, especially when you are not referring to a particular thing or person.

Here, we are talking about a particular day.

Thus, '**the**' is the most suited one.

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

23. C

Sol.

The passage is all about Delhi weather condition.

The given sentence is in passive voice. It is in present tense.

Among the given options, only option c is in passive form.

Thus, '**are expected**' is the most suited.

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

24. C

Sol.

The passage is all about Delhi weather condition.

The given blank needs to be filled with an adjective.

And 'likely' should be the correct one as if something is likely, it will probably happen or is expected.

Thus, '**likely**' is the most suited one.

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

25. C

Sol. The passage is all about Delhi weather condition.

The problem of water logging is generally seen in low areas.

Thus, '**low lying**' is the most suited one.

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

26. D

Sol. TEACHER is coded as 4235726

STRENGTH is coded as 8462947

From the given code we can conclude that

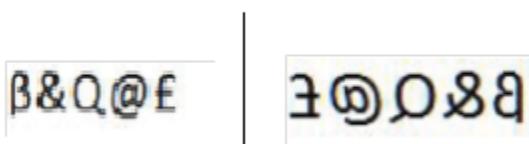
E=2, N=9, T=4, R=6, E=2, N=9, C=5, H=7

So, ENTRENCH is coded as 29462957

Hence, option D is the correct answer.

27. D

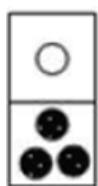
Sol. The mirror image of the given figure is given below



Hence, option D is the correct answer.

28. C

Sol. The figure that will complete the given pattern is given below -



Hence, option C is the correct answer.

29. D

Sol. $7^2=49=40+9$

$$11^2=121=108+13$$

$$\text{Similarly } 8^2=64=58+6$$

Hence, option D is the correct answer.

30. D

Sol. The logic follow in this series is +2 and -2

$$26-2=24$$

$$24-2=22$$

$$22-2=20$$

$$\text{And } 28+2=30$$

$$30+3=32$$

Hence, option D is the correct answer.

31. C

Sol. The logic followed here is that the letters in second cluster are opposite of letters in first cluster

as per the positioning value of letter

So, DUSTMITE= WFHGNRGV

Hence, option C is the correct answer.

32. C

Sol. The correct order as per the dictionary is

Identifiable, Identifier, Identify, Identikit, Identity

Hence, option C is the correct answer.

33. B

Sol. Conclusions:

I. All radios are televisions. – false, as it is not a definite case.

II. Some televisions are transistors- false, as it is not a definite case.

Hence, option B is the correct answer.

34. D

Sol. Solution Needle is used to hemming cloth similarly Pen is used for writing on paper.

Hence, option D is the correct answer.

35. A

Sol. $18 = 4^2 + 2 = 18$

$$38 = 6^2 + 2 = 38$$

Similarly,

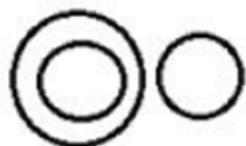
$$51 = 7^2 + 2 = 49 + 2 = 51$$

$$83 = 9^2 + 2 = 81 + 2 = 83$$

Hence, option A is the correct answer.

36. A

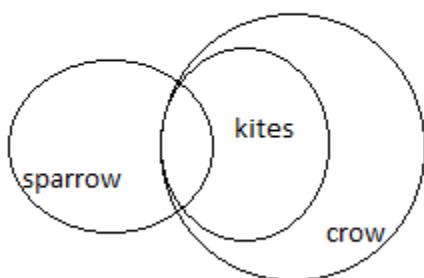
Sol. Apple is a fruit but carrot is a vegetable so Venn diagram that best represents the relationship is given below.



Hence, option A is the correct answer.

37. D

Sol.



Conclusions:

- I. All sparrows are crows. - false, only those sparrows are crows which are kites.
- II. Some crows are sparrows -true, as all kites are crows and some sparrows are kites, so some crows are sparrows.

Hence, option D is the correct answer.

38. A

Sol. The logic followed here is that the letters in next cluster will be -10 from the positional value of letters in the previous cluster.

$$Z-10=P$$

W-10=M

T-10=j

| | | |
|--------|--------|--------|
| T-10=j | J-10=z | Z-10=p |
| Q-10=g | G-10=w | W-10=m |
| N-10=d | D-10=t | T-10=j |

39. B

Sol. Opposite letter of NUISANCE=MFRHZMXV

Sum of positional value of MFRHZMXV=130

NUISANCE= 130+4=134

Similarly opposite off ERASURE=VIZHFIV

Sum of positional value of VIZHFIV=102

ERASURE =102+4=106

Opposite of PHILLIPS=KSROORKH

Sum of positional value of KSROORKH=115

PHILLIPS will be coded as 115+4=119

Hence, option B is the correct answer.

40. C

Sol. The Logic is explained below

$$8+10=18$$

$$18+8=26$$

$$26+6=32$$

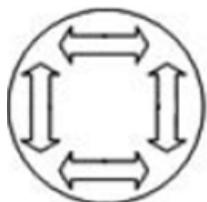
$$32+4=36$$

$$36+2=38$$

Hence, option C is the correct answer.

41. C

Sol. When paper is folded and cut as per the instruction then pattern formed is given below



Hence, option C is the correct answer.

42. D

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

So try + × ÷ -

$$78 * 26 * 4 * 13 * 28 = 58$$

$$78+26 \times 4 \div 13-28$$

Apply BODMAS

$$78+8-28$$

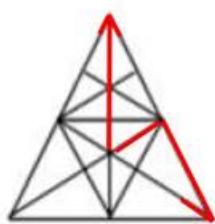
$$86-28$$

$$58$$

Hence, option D is the correct answer.

43. A

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



Hence, option A is the correct answer.

44. B

Sol. Chick is young hen similarly puppy is young dog.

Hence, option B is the correct answer.

45. B

Sol. The sitting arrangement of five persons as per the question is

E B D A C

So, A is left of c

Hence, option B is the correct answer.

46. D

Sol. The sitting arrangement in card is given below as per the question

| | | |
|---|---|---|
| U | Z | X |
| W | V | Y |

As persons are sitting from right to left, so three persons y, v, z sit in the back seat, while fourth one i.e. x will sit on the right side in the first row.

Hence, option D is the correct answer.

47. A

Sol. The figure that will replace the question mark is given below



Hence, option A is the correct answer.

48. D

Sol. These types of questions are solved by hit and trial method

So try option D

$$18 \times 7 \div 36 + 78 - 14 = 86$$

$$18 \times 7 - 46 + 78 \div 13 = 86$$

$$18 \times 7 - 46 + 6 = 86$$

$$126-46+6=86$$

$$132-46=86$$

$$86=86$$

Hence, option D is the correct answer.

49. B

Sol.

| | |
|-------|-------|
| P+4=T | T+4=X |
| O+3=R | R+3=U |
| W+4=A | A+4=E |
| E+3=H | C+3=F |
| R+4=V | K+4=O |
| C+3=F | I+3=L |
| U+4=Y | N+4=R |
| T+3=W | G+3=J |

Hence, option B is the correct answer.

50. D

Sol. The logic followed is that the letters of the word are arranged as per alphabetical order –

COMMITAL → ACILMMOT

Similarly,

INTEGRAL → AEGILNRT

Hence, option D is the correct answer.

51. D

Sol. Let the actual radius of the cylinder be r cm

$$\text{New radius of the cylinder} = r \times \frac{(100-50)}{100} = \frac{50r}{100} = \frac{r}{2} \text{ cm}$$

Now,

Volume of the actual cylinder = volume of the new cylinder

$$\Rightarrow \pi r^2 h = \pi \left(\frac{r}{2}\right)^2 (kh)$$

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

$$\Rightarrow k = 4$$

Therefore, the value of k is 4

Hence, option D is correct.

52. B

Sol. The value of $21 - [29 - \{27 - (43 - \frac{15}{3} \times 12 + 2)\}]$

By using BODMAS rules –

$$= 21 - [29 - \{27 - (43 - 60 + 2)\}]$$

$$= 21 - [29 - \{27 - (-15)\}]$$

$$= 21 - [29 - \{27 + 15\}]$$

$$= 21 - [29 - 42]$$

$$= 21 - (-13)$$

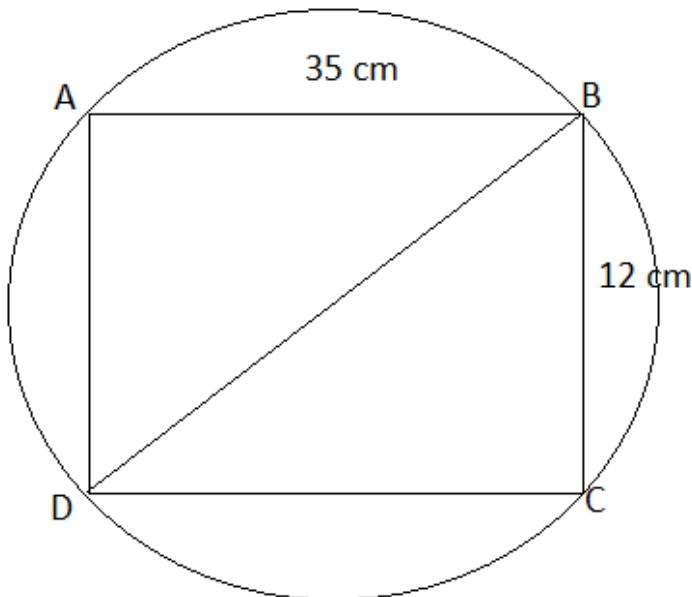
$$= 21 + 13$$

$$= 34$$

Hence, option B is correct.

53. D

Sol.



We know that:

$$\begin{aligned}\text{Diagonal of the rectangle } DB &= \sqrt{(35)^2 + (12)^2} \\ &= \sqrt{1225 + 144} \\ &= \sqrt{1369} \\ &= 37 \text{ cm}\end{aligned}$$

Now,

Diagonal of the rectangle DB = diameter of the circle = 37 cm

Radius of the circle = $\frac{37}{2}$ cm

Therefore, the circumference of the circle = $2\pi r$

$$\begin{aligned}&= 2 \times \frac{22}{7} \times \frac{37}{2} \\ &= \frac{814}{7} \\ &= 116\frac{2}{7} \text{ cm}\end{aligned}$$

Hence, option D is correct.

54. D

Sol. Given:

$$\text{Speed } s_1 = 10 \text{ m/sec} = 10 \times \frac{18}{5} = 36 \text{ km/hr}$$

We know that:

$$\text{Average speed} = \frac{2s_1s_2}{(s_1+s_2)}$$

$$\Rightarrow 45 = \frac{2 \times 36 \times (x)}{(36+x)}$$

$$\Rightarrow 1620 + 45x = 72x$$

$$\Rightarrow 72x - 45x = 1620$$

$$\Rightarrow 27x = 1620$$

$$\Rightarrow x = \frac{1620}{27}$$

$$\Rightarrow x = 60 \text{ km/hr}$$

Therefore, the value of x is 60 km/h.

Hence, option D is correct.

55. B

Sol. We know that:

$$\text{Cost price} = \text{selling price} \times \frac{100}{(100 - \text{loss}\%)}$$

$$= 242 \times \frac{100}{(100 - 12)}$$

$$= 242 \times \frac{100}{88}$$

$$= 275 \text{ Rs.}$$

Therefore, the selling price to get a profit of 15% = $275 \times \frac{(100+15)}{100} = 275 \times \frac{115}{100} = 316.25 \text{ Rs.}$

Hence, option B is correct.

56. C

Sol.

$$\text{The average imports during 2016, 2017 and 2018} = \frac{(420+450+330)}{3} = \frac{1200}{3} = 400$$

87.5% of the average imports during 2016, 2017 and 2018 = $400 \times \frac{87.5}{100} = 350$

Therefore, in 2015 the exports of the country are 87.5% of the average imports during 2016, 2017 and 2018.

Hence, option C is correct.

57. D

Sol. Total imports of the country in five years = $390 + 410 + 420 + 450 + 330 = 2000$ crores
The imports of the country in 2015 = 410 crores

Therefore, the central angle of the imports in 2015 = $\frac{360}{2000} \times 410 = 73.8\%$

Hence, option D is correct.

58. D

Sol. Total exports of the company in 2014, 2016 and 2018 = $440 + 370 + 450 = 1260$ crores
Total imports of the company in 2015 and 2017 = $410 + 450 = 860$ crores

Therefore, required percentage = $\frac{(1260 - 860)}{860} \times 100 = \frac{400}{860} \times 100 = 46.5\%$

Hence, option D is correct.

59. D

Sol. Arranging the given data in ascending order

2, 3, 3, 3, 4, 4, 5, 7, 8, 8, 9, 10, 12, 17

Total terms in the given data n = 14

$$\text{Median } a = \frac{\left[\left(\frac{n}{2}^{\text{th}} \text{ term} \right) + \left(\left(\frac{n}{2} + 1 \right)^{\text{th}} \text{ term} \right) \right]}{2}, \text{ when } n \text{ is even}$$

$$= \frac{\left[\left(\frac{14}{2}^{\text{th}} \text{ term} \right) + \left(\left(\frac{14}{2} + 1 \right)^{\text{th}} \text{ term} \right) \right]}{2}$$

$$= \frac{[(7^{\text{th}} \text{ term}) + (8^{\text{th}} \text{ term})]}{2}$$

$$= \frac{(5+7)}{2}$$

= 6

Mode – the number of value which appears most often in the set.

Mode b = 3

Now,

Range c = maximum value – minimum value = 17 – 2 = 15

Therefore, required value of $(3a - 2b + c) = 3 \times 6 - 2 \times 3 + 15 = 18 - 6 + 15 = 27$

Hence, option D is correct.

60. A

Sol. Let the sum be P Rs.

We know that:

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

$$\Rightarrow 8820 = \frac{P \times \left(\frac{27}{4}\right) \times \left(\frac{14}{3}\right)}{100}$$

$$\Rightarrow P = \frac{8820 \times 100 \times 4 \times 3}{27 \times 14}$$

$$\Rightarrow P = 28000 \text{ Rs.}$$

Now,

Simple interest for the same amount for $7\frac{1}{2}$ years at $8\frac{1}{3}\%$ = $\frac{28000 \times \left(\frac{15}{2}\right) \times \left(\frac{25}{3}\right)}{100}$

$$= \frac{28000 \times 15 \times 25}{100 \times 2 \times 3}$$

$$= 17500 \text{ Rs.}$$

Therefore, the amount will be = $28000 + 17500 = 45500 \text{ Rs.}$

Hence, option A is correct.

61. A

Sol. Let the age of A and B seven years ago be $2x$ and $3x$

$$\text{Present age of A} = 2x + 7$$

$$\text{Present age of B} = 3x + 7$$

According to the question,

$$\Rightarrow \frac{2x+7+3}{3x+7+3} = \frac{5}{7}$$

$$\Rightarrow \frac{2x+10}{3x+10} = \frac{5}{7}$$

$$\Rightarrow 14x + 70 = 15x + 50$$

$$\Rightarrow 15x - 14x = 70 - 50$$

$$\Rightarrow x = 20$$

Therefore, the sum of their present ages = $2x + 7 + 3x + 7 = 5x + 14 = 5 \times 20 + 14 = 100 + 14 = 114$ years

Hence, option A is correct.

62. C

Sol. We know that:

$$\text{Profit percentage} = \frac{(\text{Selling price}-\text{Cost price})}{\text{Cost price}} \times 100$$

$$\text{Cost price of 100 apples at the rate of 12 for Rs. } 100.80 = \frac{100.80}{12} \times 100 = 840 \text{ Rs.}$$

$$\text{Cost price of 200 apples at the rate of 15 for Rs. } 117 = \frac{117}{15} \times 200 = 1560 \text{ Rs.}$$

$$\text{Total cost price of 300 apples} = 840 + 1560 = 2400 \text{ Rs.}$$

$$\text{If 10% of the apples were spoilt, then remaining apples} = 300 \times \frac{10}{100} = 30$$

$$\text{Remaining apples} = 300 - 30 = 270$$

$$\text{Selling price of 270 apples at the rate of 20 for Rs. } 204 = \frac{204}{20} \times 270 = 2754 \text{ Rs.}$$

$$\text{Therefore, required profit percentage in the entire transaction} = \frac{(2754-2400)}{2400} \times 100 = \frac{354}{2400} \times 100 = 14.75\%$$

Hence, option C is correct.

63. C

Sol. We know that:

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

According to the question,

$$\Rightarrow \frac{16588.80}{13824} = \frac{P \left(1 + \frac{r}{100}\right)^3}{P \left(1 + \frac{r}{100}\right)^2}$$

$$\Rightarrow \frac{6}{5} = \left(1 + \frac{r}{100}\right)$$

$$\Rightarrow \frac{r}{100} = \frac{6}{5} - 1$$

$$\Rightarrow \frac{r}{100} = \frac{1}{5}$$

$$\Rightarrow r = 20\%$$

Therefore, the amount will be at the end of 4th year = $16588.80 \times \frac{(100+20)}{100}$

$$= 16588.80 \times \frac{120}{100}$$

$$= 19907 \text{ Rs.}$$

Hence, option C is correct.

64. D

Sol. Let the expenditure of X and Y be 4x and 5x respectively.

We know that:

$$\text{Income} = \text{expenditure} + \text{savings}$$

According to the question,

$$\Rightarrow \frac{4x+5000}{5x+17500} = \frac{2}{3}$$

$$\Rightarrow 12x + 15000 = 10x + 35000$$

$$\Rightarrow 12x - 10x = 35000 - 15000$$

$$\Rightarrow 2x = 20000$$

$$\Rightarrow x = 10000 \text{ Rs.}$$

Therefore, the income of X = $4x + 5000 = 4 \times 10000 + 5000 = 45000 \text{ Rs.}$

Hence, option D is correct.

65. C

Sol. Let the capacity of the tank = LCM of 18 and 30 = 90 liters

Pipe A can fill the tank in 1 min = $\frac{90}{18} = 5$ liters

Pipe B can fill the tank in 1 min = $\frac{90}{30} = 3$ liters

Pipe A, B and C can fill the tank in 1 min = $\frac{90}{45} = 2$ liters

Pipe C can empty the tank in 1 min = $2 - 5 - 3 = -6$ liters

Therefore, the capacity of the tank = $\frac{125}{6} \times 90 = 1875$ liters

Hence, option C is correct.

66. A

Sol. Let the shares of A, B and C after reduction of A certain amount be $3x$, $4x$ and $5x$ respectively

Actual share of A = $3x + 1200$

Now,

Total amount = 16200

$$\Rightarrow 3x + 1200 + 4x + 5x = 16200$$

$$\Rightarrow 12x = 16200 - 1200$$

$$\Rightarrow 12x = 15000$$

$$\Rightarrow x = \frac{15000}{12}$$

$$\Rightarrow x = 1250$$

Therefore, the share of A initially = $3x + 1200 = 3 \times 1250 + 1200 = 3750 + 1200 = 4950$ Rs.

Hence, option A is correct.

67. D

Sol. The value of $2\frac{1}{4} \div 1\frac{1}{2}$ of $\left[4\frac{1}{6} - \left(\frac{17}{21} + \frac{4}{3} \times 2\frac{1}{8} \div 1\frac{1}{6}\right) \text{ of } \left(\frac{3}{4} - \frac{5}{7}\right)\right]$

By using BODMAS rules –

$$\begin{aligned}&= \frac{9}{4} \div \frac{3}{2} \text{ of } \left[\frac{25}{6} - \left(\frac{17}{21} + \frac{4}{3} \times \frac{17}{8} \times \frac{6}{7} \times \frac{4}{3} - \frac{5}{7} \right) \right] \\&= \frac{9}{4} \div \frac{3}{2} \text{ of } \left[\frac{25}{6} - \left(\frac{17}{21} + \frac{68}{21} - \frac{5}{7} \right) \right] \\&= \frac{9}{4} \div \frac{3}{2} \text{ of } \left[\frac{25}{6} - \left(\frac{17+68-15}{21} \right) \right] \\&= \frac{9}{4} \div \frac{3}{2} \text{ of } \left[\frac{25}{6} - \frac{70}{21} \right] \\&= \frac{9}{4} \div \frac{3}{2} \text{ of } \left[\frac{25}{6} - \frac{10}{3} \right] \\&= \frac{9}{4} \div \frac{3}{2} \text{ of } \left[\frac{25-20}{6} \right] \\&= \frac{9}{4} \times \frac{2}{3} \times \frac{6}{5} \\&= \frac{9}{5} \\&= 1\frac{4}{5}\end{aligned}$$

Hence, option D is correct.

68. C

Sol. Let the number of students in the class initially be x

According to the question,

$$\Rightarrow 58.5 \times (x) + 49 + 51 + 54 + 68 = (x + 4) \times 58.3$$

$$\Rightarrow 58.5x + 222 = 58.3x + 233.2$$

$$\Rightarrow 58.5x - 58.3x = 233.2 - 222$$

$$\Rightarrow 0.2x = 11.2$$

$$\Rightarrow x = \frac{11.2}{0.2}$$

$$\Rightarrow x = 56$$

Therefore, the number of students in the class initially was 56.

Hence, option C is correct.

69. B

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

According to the question,

$$\frac{(x+y)}{2} + z = 181$$

$$\Rightarrow x + y + 2z = 362 \quad \dots\text{eq1}$$

$$\frac{(y+z)}{2} + x = 172$$

$$\Rightarrow 2x + y + z = 344 \quad \dots\text{eq2}$$

$$\frac{(z+x)}{2} + y = 160$$

$$\Rightarrow z + x + 2y = 320 \quad \dots\text{eq3}$$

Now, by adding eq1, eq2 and eq3

$$\Rightarrow 4x + 4y + 4z = 362 + 344 + 320$$

$$\Rightarrow x + y + z = \frac{1026}{4}$$

$$\Rightarrow x + y + z = 256.5$$

$$\text{Therefore, required average of } x, y \text{ and } z = \frac{x+y+z}{3} = \frac{256.5}{3} = 85.5$$

Hence, option B is correct.

70. A

Sol. Let the speed of boat in still water = x km/hr

Speed of the boat in downstream = $(x + 6)$ km/h

Speed of the boat in upstream = $(x - 6)$ km/h

According to the question,

$$\Rightarrow \frac{78}{(x+6)} + \frac{42}{(x-6)} = 6$$

$$\Rightarrow \frac{78x-468+42x+252}{(x+6)(x-6)}$$

$$\Rightarrow \frac{120x-216}{x^2-36} = 6$$

$$\Rightarrow 20x - 36 = x^2 - 36$$

$$\Rightarrow x^2 = 20x$$

$$\Rightarrow x = 20 \text{ km/h}$$

Therefore, required time to cover a distance of 100 km in still water = $\frac{100}{20} = 5$ hours
Hence, option A is correct.

71. A

Sol. The value of $\frac{1}{5} \div \frac{3}{10}$ of $\frac{4}{9} - \frac{4}{5} \times 1 \frac{1}{9} \div \frac{8}{15} + \frac{3}{4} + \frac{3}{4} \div \frac{1}{2}$

By using BODMAS rules –

$$\begin{aligned} &= \frac{1}{5} \times \frac{10}{3} \times \frac{9}{4} - \frac{4}{5} \times \frac{10}{9} \times \frac{15}{8} + \frac{3}{4} + \frac{3}{4} \times 2 \\ &= \frac{3}{2} - \frac{5}{3} + \frac{3}{4} + \frac{3}{2} \\ &= \frac{18-20+9+18}{12} \\ &= \frac{25}{12} \end{aligned}$$

Hence, option A is correct.

72. D

Sol. We know that:

$$\text{Profit percentage} = \frac{(\text{Selling price}-\text{Cost price})}{\text{Cost price}} \times 100$$

Let the marked price of the article be x Rs.

$$\text{Cost price of the article} = \frac{4}{5} \times (x) = \frac{4x}{5}$$

$$\text{Selling price of the article} = (x) \times \frac{(100+16)}{100} = \frac{116x}{100} = \frac{29x}{25}$$

$$\text{Therefore, required gain percentage} = \frac{\left(\frac{29x}{25} - \frac{4x}{5}\right)}{\left(\frac{4x}{5}\right)} \times 100$$

$$= \frac{\left(\frac{29x-20x}{25}\right)}{\left(\frac{4x}{5}\right)} \times 100$$

$$= \frac{(9x) \times 5}{25 \times (4x)} \times 100$$

$$= 45\%$$

Hence, option D is correct.

73. D

Sol. Given:

Number of students appeared an examination from School A = 300

Number of students appeared an examination from School B = 480

Total number of students appeared an examination from Schools A and B = $300 + 480 = 780$

Number of students failed from School A = $300 \times \frac{(33\frac{1}{3})}{100} = 300 \times \frac{100}{100 \times 3} = 100$

Number of students passed from School A = $300 - 100 = 200$

Number of students passed from Schools A and B = $780 \times \frac{60}{100} = 468$

Number of students passed from School B = $468 - 200 = 268$

Number of students failed from School B = $480 - 268 = 212$

Therefore, the fail percentage from school B = $\frac{212}{480} \times 100 = \frac{265}{6} = 44\frac{1}{6}\%$

Hence, option D is correct.

74. C

Sol. Take the difference of given numbers

$$4672 - 3820 = 852$$

$$6163 - 4672 = 1491$$

$$6163 - 3820 = 2343$$

The greatest number X = HCF of 852, 1491 and 2343 = 213

Now,

Quotient when 1035 divide by 213 is 4

Hence, option C is correct.

75. B

Sol. Let the total work = 36 units

$$\text{Work done by A in 1 day} = \frac{36}{12} = 3 \text{ units}$$

$$\text{Work done by B in 1 day} = \frac{36}{18} = 2 \text{ units}$$

$$\text{Work done by A in 4 days} = 4 \times 3 = 12 \text{ units}$$

$$\text{Work done by B in 4 days} = 4 \times 2 = 8 \text{ units}$$

$$\text{Remaining work} = 36 - 12 - 8 = 36 - 20 = 16 \text{ units}$$

$$\text{Work done by C in 6 days} = 16 \text{ units}$$

$$\text{Ratio of share of A, B and C} = 12 : 8 : 16 = 3 : 2 : 4$$

$$\text{Therefore, the share of C} = \frac{3240}{(3+2+4)} \times 4 = \frac{3240}{9} \times 4 = 1440 \text{ Rs.}$$

Hence, option B is correct.

76. A

Sol.

- Pranab Mukherjee has served as the Deputy Chairman of the Planning Commission of India.
- He was awarded India's highest civilian honour, the Bharat Ratna, in 2019.
- He served as the 13th president of India from 2012 until 2017.
- The Planning Commission was an institution in the Government of India, which formulated India's Five-Year Plans.
- Ramaswamy Venkataraman served as the eighth President of India and the seventh vice president of India.
- Pratibha Patil was also the first and, to date, only female president of India.

77. A

Sol.

- The President of India is the 'Visitor' to all central universities of India.
- He is the head of state of the Republic of India.

- He is the **nominal head of the executive** and the **commander-in-chief of the Indian Armed Forces**.
- The Vice President of the Republic of India is the **deputy to the head of state of India**.
- He is the **second-highest constitutional office** and **ranks second in the order of precedence**.
- He is also an **officer of the Parliament of India as the Chairman of the Rajya Sabha**.

78. D

Sol.

- **Ghoomar** is the state dance of Rajasthan.
- It was the **Bhil tribe** who performed it to worship Goddess Sarasvati.
- It is **chiefly performed by veiled women** who wear flowing dresses.
- It typically **involves performers pirouetting while moving in and out of a wide circle**.
- **Kathputli** is a **string puppet theatre**, native to Rajasthan, India and is the **most popular form of Indian puppetry**.
- **Kachhi Ghodi** is an **Indian folk dance** that originated in the Shekhawati region of Rajasthan.
- It includes a **combined performance by dancers, singers and musicians**.

79. B

Sol.

- **Silica** is the primary component of quartz.
- It is an **oxide of silicon** and is **generally colourless to white** and **insoluble in water**.
- It is the **most abundant material on earth** and it is the **common name for inorganic ceramic materials composed of silicon dioxide**.
- **Quartz** is the **second most abundant mineral in Earth's crust**.
- It occurs in **nearly all acid igneous, metamorphic and sedimentary rocks**.
- **Aluminium** is the **most abundant metal in the Earth's crust** but is rarely found **uncombined in nature**.

80. D

Sol.

- Harmanpreet Kaur was the captain of the Indian team at the ICC Women's T20 World Cup 2020.
- She became the first woman for India to score a century in a Women's Twenty 20 International match.
- The 2020 ICC Women's T20 World Cup was the seventh ICC Women's T20 World Cup tournament.
- It was held in Australia between 21 February and 8 March 2020.
- Richa Ghosh was awarded a central contract for the first time in May 2021.
- Shafali Verma became the youngest cricketer to play in a Women's Twenty20 International match for India.

81. D

Sol.

- Sakya Singha Sen was NOT a recipient of the Shanti Swarup Bhatnagar Prize for Science and Technology 2019.
- The Shanti Swarup Bhatnagar Prize for Science and Technology is a science award in India.
- It is given annually by the Council of Scientific and Industrial Research.
- It is given for notable and outstanding research, applied or fundamental, in biology, chemistry, environmental science, engineering, mathematics, medicine and physics.
- It is named after the founder Director of the Council of Scientific & Industrial Research, Shanti Swarup Bhatnagar.
- It was first awarded in 1958 and the most coveted award in multidisciplinary science in India.

82. A

Sol.

- The approximate percentage contribution of argon in Earth's atmosphere is 1%.
- Argon is the third-most abundant gas in the Earth's atmosphere.
- It is the most abundant noble gas in Earth's crust, comprising 0.00015% of the crust.
- It is extracted industrially by the fractional distillation of liquid air.
- It is mostly used as an inert shielding gas in welding and other high-temperature industrial processes.
- It is also used in incandescent, fluorescent lighting and other gas-discharge tubes.

83. D

Sol.

- Granting loans and advances functions of a bank would be associated with the term 'collateral'.
- Collateral refers to an asset that a lender accepts as security for a loan.
- It may take the form of real estate or other kinds of assets, depending on the purpose of the loan.
- It acts as a form of protection for the lender and it minimises the risk for lenders.
- Collection of cheques is a basic service undertaken by the banks.
- Portfolio management is the selection, prioritisation and control of an organisation's programmes and projects, in line with its strategic objectives and capacity to deliver.

84. A

Sol.

- The Stanley Reservoir is located in Tamil Nadu.
- It is one of the largest fishing reservoirs in South India and its main source of water is the River Kaveri.
- It was completed in 1934 and it is one of the largest of its kind in India.
- Tamil Nadu is famous for its temples, festivals and celebration of the arts.

- **Goa** is India's smallest state by area & its fourth-smallest by population and is famous for its beaches & places of worship.
- **Maharashtra** is one of India's largest commercial and industrial centres.

85. A

Sol.

- **Jupiter** has 79 natural satellites as of 31st July 2020.
- It is the **fifth planet from the Sun** and the **largest in the Solar System**.
- It is the **third brightest natural object in the Earth's night sky**.
- It is the **most massive planet in the solar system** and It is known for its stripes and **large red spot**.
- It is a **faint planetary ring system** and a **powerful magnetosphere**.
- It is **most likely the oldest planet in the Solar System** and has the **deepest planetary atmosphere in the Solar System**.

86. C

Sol.

- **Mandavi** is NOT an east-flowing river of Karnataka.
- It is also known as **Mahadayi** or **Mhadei** river and It is described as the **lifeline of the Indian state of Goa**.
- The sharing of the waters of this river is a **cause of dispute between the governments of Karnataka and Goa**.
- The **Bhima River** is a **major river in Western India and South India** and **flows southeast for a long journey of 861 kilometres**.
- The **Tungabhadra River** is formed by the **confluence of the Tunga River and the Bhadra River at Koodli**.
- **Manjira River** is a tributary of the river **Godavari**.
- It passes through the states of **Maharashtra, Karnataka and Telangana**.

87. D

Sol.

- King Shashanka, against whom Harshvardhana declared war, was a ruler of the Gauda Kingdom.
- He was the first independent king of a unified polity in the Bengal region.
- The Gauda Kingdom was a classic kingdom during the Classical period on the Indian subcontinent.
- It originated in the region of Bengal in the 4th century CE or possibly earlier.
- Magadha played an important role in the development of Jainism and Buddhism.
- Kanyakubja kingdom was short-lived and it came to be known ultimately as the base kingdom for which future empires hotly contested.

88. D

Sol.

- The Bhambavli Vajrai Waterfall is located in Maharashtra.
- It is a waterfall located on the Urmodi river in India.
- The height of the waterfall combining all three tiers is 560m and It is the second-highest plunge waterfall in India.
- It is situated in the Sahyadri Hills of the Western Ghat and it is one of the best among Maharashtra waterfalls.
- Maharashtra is home to a plethora of stunning waterfalls but the Vajrai waterfall beats all of them in terms of popularity.
- Urmodi river is the base of Bhambavli Vajrai Waterfall in Maharashtra.

89. B

Sol.

- Rao Inderjit Singh was the Minister of State (Independent Charge) of the Ministry of Planning as of 31st July 2020.

- He is considered one of the most powerful leaders of the Ahirwal/Yadava belt of Haryana.
- Shripad Yesso Naik serves as the current Minister of State for Tourism & Ports, Shipping and Waterways of India.
- Kiren Rijiju serves as the Minister of Law and Justice in the Government of India.
- Santosh Kumar Gangwar is currently the Chairperson of the Committee on Public Undertakings.

90. C

Sol.

- India was the second-largest source of foreign direct investment in the UK during 2019-20 according to the UK government's data.
- Indian companies have invested in at least 99 projects in the UK and created over 4,800 jobs.
- The UK economy showed its underlying strengths, attracting investment from around the world.
- Foreign direct investment is an investment in the form of controlling ownership in a business in one country by an entity based in another country.
- It is the sum of equity capital, long-term capital and short-term capital.

91. A

Sol.

- Kiran Mazumdar Shaw has been named among the top 20 inspirational leaders in the field of biopharmaceuticals in 'The Medicine Maker Power List 2020'.
- She is the executive chairperson and founder of Biocon Limited & Biocon Biologics Limited
- Ajay Piramal is one of India's leading industrialists and philanthropists and Chairman of the Piramal Group.

- **Dilip Shanghvi** is an Indian billionaire businessman and one of the country's richest people.
- He founded Sun Pharmaceuticals and is the chairman of the board of governors at IIT Bombay.

92. B

Sol.

- Pullela Gopichand was the chief coach of the badminton Indian team as of August 2020.
- He is the Chief National Coach for the India national badminton team.
- Badminton is a racquet sport played using racquets to hit a shuttlecock across a net.
- It is often played as a casual outdoor activity in a yard or on a beach.
- Wrestling represents one of the oldest forms of combat.
- Judo is a martial art that was born in Japan and it is now known around the world as an Olympic sport.

93. A

Sol.

- The eyes are directly affected by the disease called 'trachoma'.
- Trachoma is caused by infection with the bacterium Chlamydia trachomatis.
- It is responsible for the blindness or visual impairment of about 1.9 million people.
- It is the world's leading cause of preventable blindness of infectious origin.
- It is a preventable disease that results from poor hygiene and sanitation.
- The liver is both the heaviest internal organ and the largest gland in the human body.

94. A

Sol.

- Neptune is the windiest planet in the solar system.
- It is the eighth and farthest-known Solar planet from the Sun.

- It is the **fourth-largest planet by diameter** and the **third-most-massive planet**.
- It is the **only planet in the Solar System found by mathematical prediction rather than by empirical observation**.
- **Uranus** is the **seventh planet from the Sun** and has the **third-largest diameter in our solar system**.
- It has the **third-largest planetary radius** and **fourth-largest planetary mass in the Solar System**.

95. A

Sol.

- '**Tholu Bommalata**', a shadow puppet theatre tradition, belongs to the state of Andhra Pradesh.
- It literally means "**the dance of leather puppets**".
- Its performers are part of a group of wandering entertainers and peddlers who pass through villages during the course of a year.
- Andhra Pradesh is the **seventh-largest state by area** and the **tenth-most populous state**.
- It was the **first state to be formed on a linguistic basis in India on 1 October 1953**.
- **Maharashtra** is one of India's largest commercial and industrial centres.

96. D

Sol.

- **Bagha Jatin** conceived an armed insurrection against the British in cooperation with Germany.
- He was the principal leader of the Jugantar party which was the central association of revolutionary independence activists in Bengal.
- **Khudiram Bose** was one of the youngest martyrs of the Indian Independence Movement.
- He was one of the first Indian revolutionaries in Bengal to be executed by the British.

- Ashfaqulla Khan was **co-founder of the Hindustan Socialist Republican Association.**
- Prafulla committed suicide when he was **about to be arrested by the Police.**

97. A

Sol.

- Baba Ramchandra mainly led the peasant struggle during colonial rule in Awadh.
- He is one of the prime characters in Kamla Kant Tripathi's history based novel "Bedakhali".
- Awadh is known as the **granary of India** and It was **important strategically for the control of the Doab.**
- It was a **wealthy kingdom**, able to maintain its independence against threats from the Marathas, the British and the Afghans.
- The **Kingdom of Mysore** was a **realm in southern India.**
- It was **founded** and ruled for the most part by the Hindu Wodeyar family.

98. A

Sol.

- Nand Kishore Acharya is the author of the Hindi poetry book 'Chheelatey Hue Apne Ko'.
- He is a professor emeritus at the International Institute of Information Technology, Hyderabad.
- Javed Akhtar received the Richard Dawkins Award in 2020.
- Rahat Indori was one of the most popular Indian poets who died of COVID-19-related complications on 11 August 2020.
- Gulzar is an Oscar-winning Indian film director, lyricist and poet.
- He is a **collection of a few of his greatest works as a poet.**

99. B

Sol.

- The folk theatre form ‘Ranmale’ is traditionally associated with Goa.
- Ranmale is a ritualistic and folk theatre form based on mythological stories from the popular Indian epics, the Ramayana and the Mahabharata.
- It is performed during the Holi festival which is celebrated as Shigmo in Goa and the Konkan region.
- Goa is India's smallest state by area and its fourth-smallest by population.
- It has the highest GDP per capita among all Indian states.
- It is visited by large numbers of international and domestic tourists each year.

100. B

Sol.

- In July 2020, the Union Ministry of Micro, Small and Medium Enterprises launched a registration portal for facilitating the process of classification and registration of enterprises. The portal is named as Udyam Registration Portal.
- It is the only Government Portal for the registration of MSME.
- It is an official portal to register a new MSME or to re-register an already registered EM-II.
- The Ministry of Micro, Small Medium Enterprises maintains this portal.
- It is a user-friendly portal and it provides free of cost and paperless registration.

Mock Test Solutions in Hindi

Questions

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

A system of government in which power is held by the people

- A. Bureaucracy
 - B. Autocracy
 - C. Democracy
 - D. Monarchy

2. Select the INCORRECTLY spelt word.

- A. Adress
 - B. Evacuate
 - C. Advertisement
 - D. Apartment

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

RECEIVE

- | | |
|-----------|------------|
| A. Obtain | B. Give |
| C. Follow | D. Abandon |

4. Select the INCORRECTLY spelt word.

- | | |
|--------------|----------------|
| A. Professor | B. Confesion |
| C. Possible | D. Intelligent |

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

Restaurants are ____ to new ways of attracting customers these days.

- A. displaying
 - B. existing
 - C. living
 - D. adapting

6. 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.'

These days I ate lots of fruits and green vegetables to boost my immunity.

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

The baby were not able to eat anything due to stomach ache.

- A. to eat
- B. due to
- C. The baby were
- D. not able

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

See eye to eye

- A. disturb
- B. agree
- C. quarrel
- D. smile

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

We received all the health updates but were not sure whether its accurateness.

- A. about they are accurate
- B. whether how they were accurate
- C. about their accuracy
- D. No substitution required

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

You have to submit a copy of _____ school leaving certificate.

- A. hers
- B. yours
- C. theirs
- D. your

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

TREMENDOUS

- A. Minute
- B. Fortunate
- C. Huge
- D. Eligible

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

In spite of my best efforts, I could not concentrated on my studies.

- A. In spite of
- B. my best efforts
- C. could not concentrated
- D. on my studies

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

I always stays at a hotel which is near my work place.

- A. am always stayed
- B. am always stay
- C. No substitution required
- D. always stay

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

REGULAR

- A. Agreeable
- B. Usual
- C. Recent
- D. Fake

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

Drawings or writing scribbled on walls in public places

- A. Sketches
- B. Graffiti
- C. Posters
- D. Hoardings

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

Be over the moon

- A. very unhappy at an incident
- B. willing to take on a task
- C. very pleased about something
- D. unable to perform well

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

You studied mathematics in Class X, _____ you?

- A. haven't
- B. hadn't
- C. aren't
- D. didn't

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

The young businessman's life was saved when he is pull out from his burning car by passers-by.

- A. he is pull out
- B. by passers-by
- C. from his burning car
- D. was saved

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

These days you get very good _____ if you buy consumer goods online.

- A. objects
- B. deals
- C. spaces
- D. covers

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

PROMINENT

- | | |
|------------------|--------------|
| A. inconspicuous | B. dangerous |
| C. crazy | D. evident |

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

Delhi recorded a spell of light rain (1) _____ Friday evening with humidity levels remaining on the higher side throughout (2) _____ day. The IMD has forecast moderate rain on Saturday but some areas (3) _____ to get heavy rain. An official also said that the next seven days are (4) _____ to see good rain. The municipal corporation has been advised to remain prepared for water logging in (5) _____ areas of the city.

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

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

- A. every
 - B. any
 - C. the
 - D. a

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

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

- A. likelihood
 - B. liked
 - C. likely
 - D. like

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

- A. middle
 - B. high rise
 - C. low lying
 - D. uplifted

26. यदि एक कूटबद्ध प्रणाली में TEACHER को 4235726 के रूप में तथा STRENGTH को 8462947 के रूप में कूटबद्ध किया जाता है, तो उसी कूटबद्ध प्रणाली में ENTRENCH को किस प्रकार कूटबद्ध किया जाएगा?

- A. 29642965 B. 24922457
C. 46294675 D. 29462957

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

β&Q@F

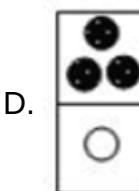
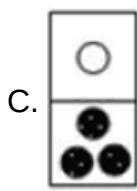
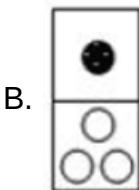
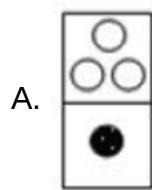
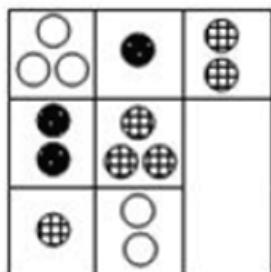
A. धृतिकृत

B. विभिन्नता

C. F@Q&B

D. अनुकूल

28. उस विकल्प आकृति की पहचान करें जो निम्नलिखित पैटर्न को पूरा करती है।



29. उस संख्या त्रिक का चयन करें जो दिए गए त्रिक के अनुरूप है।

(7, 40, 9), (11, 108, 13)

A. (4, 12, 5)

B. (13, 123, 24)

C. (9, 67, 10)

D. (8, 58, 6)

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

26, 28, 24, 30, 22, ?

A. 26

B. 30

C. 28

D. 32

31. उस विकल्प का चयन करें जो तीसरे अक्षर समूह से उसी प्रकार संबंधित है जिस प्रकार दूसरा अक्षर समूह पहले अक्षर समूह से संबंधित

୧୮

LATITUDE : OZGRGFWV :: DUSTMITE : _____.

32. निम्नलिखित शब्दों के शब्दकोश में आने वाले क्रम को दर्शाने के लिए सही विकल्प का चयन करें।

- ### 1) Identify

- ## 2) Identifier

- ### 3) Identifiable

- #### 4) Identikit

- ## 5) Identity

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

कथनः

सभी टेलीविज़न, रेडियो हैं।

कूछ रेडियो, टरांजिस्टर हैं ।

ନିଷ୍କର୍ଷ-

- ।. सभी रेडियो, टेलीविज़न हैं ।

- ||. कछ टेलीविज़न, टरांजिस्टर हैं।

- A. केवल निष्कर्ष | अनुसरण करता है

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

C. केवल निष्कर्ष || अनुसरण करता है

D. दोनों निष्कर्ष | और || अनुसरण करते हैं

34. जिस प्रकार 'सर्डी' का संबंध 'तरपन' से है, उसी प्रकार 'पेन' का संबंध किससे है।

- A. कागज B. स्याही

C. निब

D. लेखन

35. उस विकल्प का चयन करें जिसमें संख्या-युग्म वही संबंध साझा करता है, जो निम्नलिखित संख्या-युग्म द्वारा साझा किया गया है।

18 : 38

A. 51 : 83

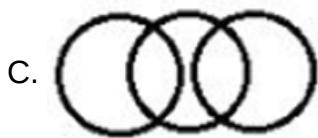
B. 38 : 70

C. 46 : 68

D. 28 : 60

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

सेब, फल, गाजर



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

कथन:

कुछ स्पैरो, काइट हैं।

सभी काइट, करो हैं।

निष्कर्ष:

I. सभी स्पैरो, करो हैं।

II. कुछ करो, स्पैरो हैं।

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

C. दोनों निष्कर्ष । और ॥ अनुसरण करते हैं

B. केवल निष्कर्ष । अनुसरण करता है

D. केवल निष्कर्ष ॥ अनुसरण करता है

38. निम्नलिखित अक्षर शून्खला में कौन सा अक्षर समूह प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगा?

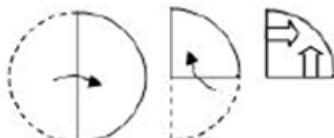
TQN, JGD, ZWT, ?

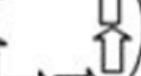
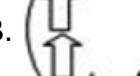
39. यदि एक कूटबद्ध प्रणाली में NUISANCE को 134 के रूप में तथा ERASURE को 106 के रूप में कूटबद्ध किया जाता है, तो उसी कूटबद्ध प्रणाली में PHILLIPS को किस प्रकार कूटबद्ध किया जाएगा?

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

8, 18, 26, 32, 36, ?

41. एक कागज को निम्नलिखित आकृतियों में दर्शाए अनुसार मोड़ा और काटा जाता है। कागज खोले जाने पर कैसा दिखाई देगा?



- A.  B. 

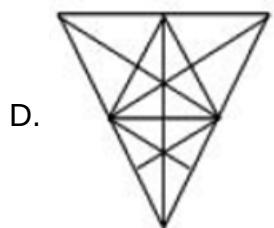
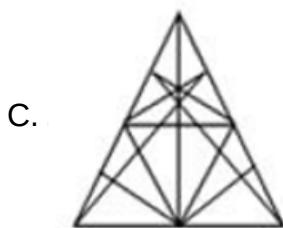
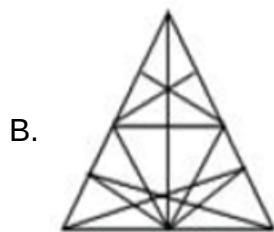
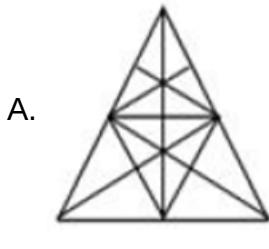
C.  D. 

42. उस विकल्प आकृति का चयन करें जो निम्नलिखित आकृति शरूँखला में प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगी।

$$78^* 26^* 4^* 13^* 28 = 58$$

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

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



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

मुर्गी : चूजा :: कुत्ता : _____

A. शिशु

B. पिल्ला

C. बछड़ा

D. पशुशावक

45. पांच व्यक्ति अर्थात् A, B, C, D और E एक बैंच पर बैठे हैं, तथा सभी के मुख पार्क की ओर हैं। D, C की बाईं ओर से दूसरे स्थान पर है लेकिन B की ठीक दाईं ओर है। यदि E, बैंच की ठीक बाईं ओर है और B के आसन्न बैठा है, तो A का सही स्थान क्या है?

A. E की दाईं ओर

B. C की बाईं ओर

C. D की बाईं ओर

D. C की दाईं ओर

46. एक टैक्सी कार में छह सीटें हैं, तीन आगे की पंक्ति में और तीन पीछे की पंक्ति में हैं। जो लोग पहले कार में चढ़ते हैं, वे पीछे की सीट पर जाते हैं और पहले आओ पहले पाओ के आधार पर दाएं से बाएं तक सीटों पर बैठ जाते हैं। Y कार में सवार होने वाला पहला व्यक्ति था और U अंतिम व्यक्ति था। Z कार में चढ़ने वाला दूसरा व्यक्ति था और V के सामने बैठा था। यदि W, V की बाईं ओर बैठा है, तो X का बैठने का क्रम क्या है?

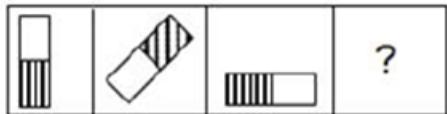
A. तीसरा

B. पांचवां

C. दूसरा

D. चौथा

47. उस विकल्प आकृति का चयन करें जो निम्नलिखित आकृति शरूंखला में प्रश्नवाचक चिन्ह (?) को प्रतिस्थापित करेगी।



48. दिए गए समीकरण को संतुलित करने के लिए किन दो संख्याओं और प्रतीकों को आपस में बदला जा सकता है?

$$18 \times 7 \div 36 + 78 - 14 = 86$$

- A. 6 और 4; – और +
 B. 1 और 4; × और ÷
 C. 3 और 4; × और +
 D. 4 और 3; ÷ और –

49. एक निश्चित कूट भाषा में यदि POWERCUT को TRAHVFYW लिखा जाता है, तो उसी कूट भाषा में TRACKING को किस प्रकार लिखा जाएगा?

- A. XVEGOMRU
 B. XUEFOLRJ
 C. RTCAIKGN
 D. WUDFNLQT

50. एक निश्चित कूट भाषा में यदि COMMITAL को ACILMMOT के रूप में लिखा जाता है, तो उसी कूट भाषा में INTEGRAL को किस प्रकार लिखा जाएगा?

- A. AEIGLNTR
 B. INETGRLA
 C. LARGETNI
 D. AEGILNRT

51. एक बेलन की त्रिज्या को उसकी वास्तविक त्रिज्या के 50% तक कम कर दिया जाता है। यदि इसका आयतन पहले जैसा ही रहता है, तो इसकी ऊँचाई मूल ऊँचाई की k गुना हो जाती है। k का मान ज्ञात कीजिए?

- A. 2
 B. 16
 C. 8
 D. 4

52. $21 - [29 - \{27 - (43 - 15 \div 3 \times 4) \text{ of } 3 + 2\}]\}$ का मान ज्ञात कीजिए?

- A. 39
 B. 34
 C. 31
 D. 27

53. एक आयत की लंबाई और चौड़ाई क्रमशः 35 सेमी और 12 सेमी है। इस आयत को अंकित करने वाले वृत्त की परिधि क्या होगी? ($\pi = \frac{22}{7}$ लेने पर)

- A. $115\frac{3}{7}$ सेमी
B. $117\frac{1}{7}$ सेमी

C. $114\frac{4}{7}$ सेमी
D. $116\frac{2}{7}$ सेमी

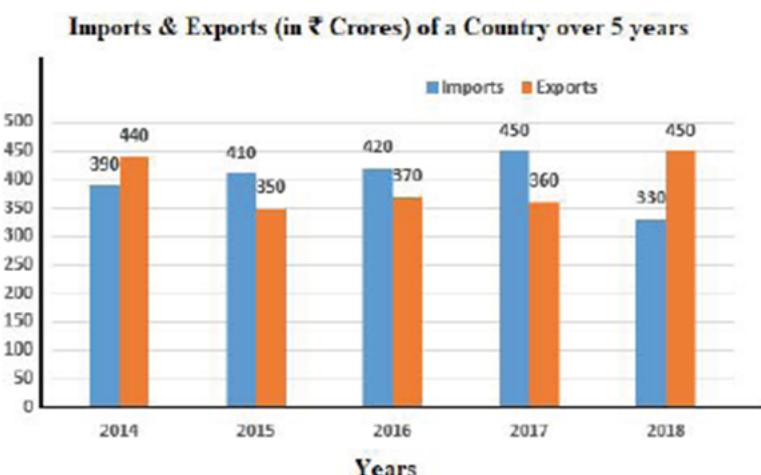
एक व्यक्ति 10मी/सेकंड की गति से A से B तक जाता है, और x किमी/घंटा की गति से B से A तक वापस आता है। यदि उसकी औसत गति 45 किमी/घंटा है, तो x का मान क्या है?

A. 54
B. 50
C. 56
D. 60

एक वस्तु को 242 रुपये में बेचने पर 12% की हानि होती है। 15% का लाभ प्राप्त करने के लिए वस्तु को किस कीमत (रु में) बेचा जाना चाहिए?

A. 324
B. 316.25
C. 326.50
D. 319

निर्देश: दिए गए ग्राफ का अध्ययन करें और निम्नलिखित प्रश्नों के उत्तर दें।



तक सही)?

- C. $42\frac{1}{3}\%$ D. $44\frac{1}{6}\%$

74. जब 3820, 4672 और 6163 को सबसे बड़ी संख्या X से विभाजित किया जाता है, तो प्रत्येक स्थिति में शेषफल समान प्राप्त होता है जब X 1035 को विभाजित करता है तो भागफल क्या है?

A. 6 B. 8
C. 4 D. 3

75. A एक निश्चित कार्य को 12 दिनों में कर सकता है और B इसे 18 दिनों में कर सकता है। उन्होंने 4 दिनों तक एक साथ काम किया। शेष कार्य को C अकेले 6 दिनों में पूरा करता है। यदि उन्हें पूरे कार्य के लिए 3240 रुपये मिलते हैं, तो इस राशि में C का हिस्सा होगा:

A. 1,080 रुपये B. 1,440 रुपये
C. 1,260 रुपये D. 1,170 रुपये

76. निम्नलिखित में से किसने भारत के योजना आयोग के उपाध्यक्ष के रूप में कार्य किया है?

A. परणब मुखर्जी B. रामास्वामी वेंकटरमण
C. प्रतिभा पाटिल D. ज्ञानी जैल सिंह

77. निम्नलिखित में से कौन भारत के सभी केंद्रीय विश्वविद्यालयों का 'आगंतुक' (विजिटर) है?

A. भारत के राष्ट्रपति B. अध्यक्ष, विश्वविद्यालय अनुदान आयोग
C. केंद्रीय मानव संसाधन विकास मंत्री D. भारत के उपराष्ट्रपति

78. निम्न में से राजस्थान का राजकीय नृत्य कौन सा है?

A. कच्ची घोड़ी B. कालबेलिया
C. कठपुतली D. घूमर

79. निम्नलिखित में से कौन सा क्वार्ट्ज (quartz) का प्राथमिक घटक है?

A. एल्युमिनियम B. सिलिका
C. ज़िंक D. लोहा

80. ICC महिला T20 विश्व कप 2020 में भारतीय टीम की कप्तान कौन थी?

A. वेद कृष्णमूर्ति B. शेफाली वर्मा
C. ऋचा घोष D. हरमनप्रीत कौर

81. निम्नलिखित में से कौन विज्ञान और प्रौद्योगिकी 2019 के लिए शांति स्वरूप भटनागर पुरस्कार प्राप्तकर्ता नहीं था?

A. तापस कुमार मजी B. सौमेन बसक
C. कायरात साईकृष्णन D. शाक्य सिंह सेन

82. पृथ्वी के वायुमंडल में आर्गन का लगभग प्रतिशत योगदान कितना है?

A. 1% B. 2%
C. 3% D. 4%

C. जूड़े

D. फुटबॉल

93. निम्नलिखित में से कौन सा शरीर का अंग 'ट्रेकोमा' नामक रोग से सीधे प्रभावित होता है?

A. आंखें

B. दांत

C. फेफड़े

D. लीवर

94. निम्नलिखित में से सौरमंडल का सबसे तेज हवा वाला ग्रह कौन सा है?

A. वरुण

B. अरुण

C. शनि

D. मंगल

95. छाया कठपुतली, थिएटर परंपरा 'थोलू बोम्मलता' _____ राज्य से संबंधित है।

A. आंध्र प्रदेश

B. कर्नाटक

C. केरल

D. महाराष्ट्र

96. निम्नलिखित भारतीय क्रांतिकारियों में से किसने जर्मनी के सहयोग से अंगरेजों के खिलाफ सशस्त्र विद्रोह की कल्पना की?

A. परफुल्ल चाकी

B. अशफाकउल्ला खान

C. खुदीराम बोस

D. बाघा यतीन

97. निम्नलिखित में से किस क्षेत्र में बाबा रामचंद्र ने औपनिवेशिक शासन के दौरान मुख्य रूप से किसान संघर्ष का नेतृत्व किया?

A. अवध

B. मैसूर

C. जोधपुर

D. हैदराबाद

98. निम्नलिखित में से कौन हिंदी कविता पुस्तक 'छीलते हुए अपने को' के लेखक हैं?

A. नंद किशोर आचार्य

B. जावेद अख्तर

C. राहत इंदौरी

D. गुलजार

99. निम्नलिखित में से किस राज्य के साथ लोक नाट्य रूप 'रणमाले' पारंपरिक रूप से संबंधित है?

A. पश्चिम बंगाल

B. गोवा

C. झारखंड

D. छत्तीसगढ़

100. जुलाई 2020 में, केंद्रीय सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय ने उद्यमों के वर्गीकरण और पंजीकरण की प्रक्रिया को सुविधाजनक बनाने के लिए एक पंजीकरण पोर्टल लॉन्च किया। इस पोर्टल का क्या नाम है?

A. सक्षम रजिस्ट्रेशन पोर्टल

B. उद्यम रजिस्ट्रेशन पोर्टल

C. सुगम रजिस्ट्रेशन पोर्टल

D. दक्ष रजिस्ट्रेशन पोर्टल

Solutions

1. C

Sol.

Bureaucracy = a system for controlling or managing a country, company, or organization that is operated by a large number of officials employed to follow rules carefully.

Autocracy = government by a single person or small group that has unlimited power or authority, or the power or authority of such a person or group.

Democracy = the belief in freedom and equality between people, or a system of government based on this belief, in which power is either held by elected representatives or directly by the people themselves.

Monarchy = a country that has a king or queen.

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

2. A

Sol.

Option A has incorrectly spelt word and its correct spelling is '**address**' which means the number of the house, name of the road, and name of the town where a person lives or works, and where letters can be sent.

Meaning of other words are :-

Evacuate = to move people from a dangerous place to somewhere safe.

Advertisement = a picture, short film, song, etc. that tries to persuade people to buy a product or service, or a piece of text that tells people about a job, etc.

Apartment = a set of rooms for living in, especially on one floor of a building.

3. B

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

Receive = to get or be given something.

E.g. :- Did you receive my letter?

Obtain = to get something, especially by asking for it, buying it, working for it, or producing it from something else.

Give = to offer something to someone, or to provide someone with something.

E.g. :- She gave us a set of saucepans as a wedding present.

Follow = to move behind someone or something and go where he, she, or it goes.

Abandon = We had to abandon the car.

Hence, option B is the correct answer.

4. B

Sol.

Option B has incorrectly spelt word i.e. '**confession**' which means the act of admitting that you have done something wrong or illegal.

Meaning of other words are :-

Professor = a teacher of the highest rank in a department of a British university, or a teacher of high rank in an American university or college.

Possible = able to be done or achieved, or able to exist.

Intelligent = showing intelligence, or able to learn and understand things easily.

5. D

Sol. The given blank needs to be filled with a verb.

Let us understand the meaning of the given words :-

- * **Displaying** = to arrange something or a collection of things so that it can be seen by the public.
- * **Existing** = used to refer to something that exists now.
- * **Living** = alive now.
- * **Adapting** = to become familiar with a new situation.
- * E.g. :- To remain competitive the company has to be able to adapt to the changing marketplace.

Here, we are talking about restaurants, who are becoming familiar with new things.

Thus, '**adapting**' is the most suited one.

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

6. C

Sol. The underlined part is grammatically incorrect.

'These days' means in the present age; nowadays.

So, the tense of the given sentence should be simple present tense.

We use the **simple present tense** when an action is happening right now, or when it happens regularly.

We use base form of the verb after the given subject 'I'.

And it should be 'eat'.

Thus, '**eat**' is the most suited one.

The correct sentence is :- **These days I eat lots of fruits and green vegetables to boost my immunity.**

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

7. C

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

The error is related to subject verb agreement.

The subject of the given sentence is ‘baby’ which is singular in nature.

So, we need singular form of verb after it.

And that will be ‘was’ not ‘were’.

Thus, **replace ‘were’ with ‘was’** to make the sentence grammatically correct.

The correct sentence is :- **The baby was not able to eat anything due to stomach ache.**

8. B

Sol.

The idiom ‘**see eye to eye**’ means to have or come to the same opinion or point of view.

E.g. :- The two did not see eye to eye on certain political issues.

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

9. C

Sol.

The sentence is grammatically incorrect.

‘Whether’ is a conjunction which means (used especially in reporting questions and expressing doubts) if, or not.

‘About’ means on the subject of, or connected with.

Here, we need preposition, and that preposition should be ‘about’.

Moreover, we need plural pronoun for plural noun ‘updates’.

And that pronoun should be ‘their’.

Also, 'accuracy' should be used in place of 'accurateness'.

Thus, '**about their accuracy**' is the most suited one.

The correct sentence is :- **We received all the health updates but were not sure about their accuracy.**

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

10. D

Sol. The given blank needs to be filled with a pronoun.

Let us understand the meaning of the given pronouns.

* **Hers** = the one(s) belonging to or connected with a woman, girl, or female animal that has been mentioned or is known about.

* **Yours** = the one(s) belonging to or connected with the person or group of people being spoken or written to.

* **Theirs** = the one(s) belonging to or connected with them.

* **Your** = belonging or relating to the person or group of people being spoken or written to.

Here, we need a possessive adjective and that will be 'your'.

Thus, '**your**' is the most suited one.

The correct sentence is :- **You have to submit a copy of your school leaving certificate.**

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

11. C

Sol.

Let us understand the meaning of the given words :-

Tremendous = very great in amount or level, or extremely good.

E.g. :- They were making a tremendous amount of noise last night.

Minute = one of the 60 parts that an hour is divided into, consisting of 60 seconds.

Fortunate = lucky.

Huge = extremely large in size or amount.

E.g. :- They live in a huge house.

Eligible = having the necessary qualities or satisfying the necessary conditions.

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

12. C

Sol.

The sentence is grammatically incorrect and **the error lies in option C**.

The error is related to verb.

We need base form of the verb after the modal verb.

Here, we are given with past form of the verb i.e. 'concentrate'.

Thus, **replace 'concentrated' with 'concentrate'** to make the sentence grammatically correct.

The correct sentence is :- **In spite of my best efforts, I could not concentrate on my studies.**

13. D

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

'Always' in the given sentence shows that the author does something every time or all the time.

So, the tense of the given sentence should be simple present tense.

We use the **simple present tense** when an action is happening right now, or when it happens regularly.

We put base form of the verb after the mentioned subject 'I'.

And it should be in its plural form as, we put plural verb after 'I'.

Thus, '**always stay**' is the most suited one.

The correct sentence is :- **I always stay at a hotel which is near my work place.**

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

14. B

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

Regular = happening or doing something often.

E.g. :- Professional athletes make regular appearances on TV.

Agreeable = pleasant or pleasing.

Usual = normal; happening, done, or used most often.

E.g. :- I went to bed at my usual time.

Recent = happening or starting from a short time ago.

Fake = an object that is made to look real or valuable in order to deceive people.

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

15. B

Sol.

Sketches = a simple, quickly made drawing that does not have many details.

Graffiti = words or drawings, especially humorous, rude, or political, on walls, doors, etc. in public places.

Posters = a large, printed picture, photograph, or notice that you stick or pin to a wall or board, usually for decoration or to advertise something.

Hoardings = a very large board on which advertisements are shown, especially at the side of a road.

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

16. C

Sol.

The idiom '**be over the moon**' means very pleased about something.

E.g. :- She's over the moon about her new job.

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

17. D

Sol.

The given blank needs to be filled with question tag.

We use question tags when we expect the listener to agree with our statement.

In this case, when the statement is positive, we use a negative question tag. And when the statement is negative, we use a positive question tag.

Here, the given sentence is a positive statement, and we need a negative question tag.

The given is in simple past tense, so we should use 'did' in the tag part.

Thus, "**didn't**" is the most suited one.

The correct sentence is :- **You studied mathematics in Class X, didn't you?**

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

18. A

Sol. The sentence is grammatically incorrect and **the error lies in option A.**

The error is related to tense.

The given sentence is in simple past tense.

The simple past tense is used to talk about a completed action in a time before now.

The time of the action can be in the recent past or the distant past and action duration is not important.

So, we should write past form of auxiliary verb 'is' and that should be 'was'.

Thus, **replace 'is' with 'was'** to make the sentence grammatically correct.

The correct sentence is :- **The young businessman's life was saved when he was pull out from his burning car by passers-by.**

19. B

Sol.

The given blank needs to be filled with a **noun**.

Let us understand the meaning of the given words :-

* **Objects** = a thing that you can see or touch but that is not usually a living animal, plant, or person.

* **Deals** = an agreement or an arrangement, especially in business.

* **Spaces** = an empty area that is available to be used.

* **Covers** = to put or spread something over something, or to lie on the surface of something.

Here, we are talking about agreement.

Thus, '**deals**' is the most suited one.

The correct sentence is :- **These days you get very good deals if you buy consumer goods online.**

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

20. A

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

Prominent = very well-known and important.

E.g. :- The government should be playing a more prominent role in promoting human rights.

Inconspicuous = not easily or quickly noticed or seen, or not attracting attention.

E.g. :- This type of bird is very inconspicuous because of its dull feathers.

Dangerous = able or likely to cause harm or death, or unpleasant problems.

Crazy = stupid or not reasonable.

Evident = easily seen or understood.

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

21. C

Sol. The passage is all about Delhi weather condition.

Let us understand the meaning of the given words :-

* **In** = inside a container, place, or area, or surrounded or closed off by something.

* **At** = used to show an exact position or particular place.

* **On** = used to show when something happens.

* **For** = intended to be given to.

Whenever we talk about the day when something happens.

We use preposition 'on' before it.

E.g. :- Hair salons don't usually open on Sundays.

Thus, '**on**' is the most suited one.

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

22. C

Sol. The passage is all about Delhi weather condition.

Let us understand the meaning of the given words :-

* **Every** = used when referring to all the members of a group of three or more.

* **Any** = some, or even the smallest amount or number of.

* **The** = used before nouns to refer to particular things or people that have already been talked about or are already known or that are in a situation where it is clear what is happening.

* **A** = used before a noun to refer to a single thing or person that has not been mentioned before, especially when you are not referring to a particular thing or person.

Here, we are talking about a particular day.

Thus, '**the**' is the most suited one.

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

23. C

Sol.

The passage is all about Delhi weather condition.

The given sentence is in passive voice. It is in present tense.

Among the given options, only option c is in passive form.

Thus, '**are expected**' is the most suited.

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

24. C

Sol.

The passage is all about Delhi weather condition.

The given blank needs to be filled with an adjective.

And 'likely' should be the correct one as if something is likely, it will probably happen or is expected.

Thus, '**likely**' is the most suited one.

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

25. C

Sol. The passage is all about Delhi weather condition.

The problem of water logging is generally seen in low areas.

Thus, '**low lying**' is the most suited one.

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

26. D

Sol. TEACHER को 4235726 के रूप में कूटबद्ध किया जाता है

STRENGTH को 8462947 के रूप में कूटबद्ध किया जाता है

दिए गए कूट से हम यह निष्कर्ष निकाल सकते हैं कि

E=2, N=9, T=4, R=6, E=2, N=9, C=5, H=7

अतः, ENTRENCH को 29462957 के रूप में कूटबद्ध किया जाता है

इसलिए, विकल्प D सही उत्तर है।

27. D

Sol. दी गई आकृति का दर्पण प्रतिबिम्ब नीचे दिया गया है -

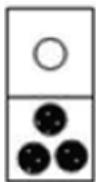
B&Q@E

എ

इसलिए, विकल्प D सही उत्तर है।

28. C

Sol. दिए गए पैटर्न को पूरा करने वाली आकृति नीचे दी गई है -



इसलिए, विकल्प C सही उत्तर है।

29. D

Sol. $7^2 = 49 = 40 + 9$

$$11^2 = 121 = 108 + 13$$

$$\text{इसी प्रकार, } 8^2 = 64 = 58 + 6$$

इसलिए, विकल्प D सही उत्तर है।

30. D

Sol. इस शृंखला में अनुसरण किया गया तर्क +2 और -2 है-

$$26 - 2 = 24$$

$$24 - 2 = 22$$

$$22 - 2 = 20$$

$$\text{और } 28 + 2 = 30$$

$$30 + 3 = 32$$

इसलिए, विकल्प D सही उत्तर है।

31. C

Sol. यहां तर्क यह है कि अक्षर के स्थानिक मान के अनुसार दूसरे समूह में अक्षर पहले समूह में अक्षरों के विपरीत हैं-

अतः, DUSTMITE= WFHGNRGV

इसलिए, विकल्प C सही उत्तर है।

32. C

Sol. शब्दकोश के अनुसार सही क्रम है

Identifiable, Identifier, Identify, Identikit, Identity

इसलिए, विकल्प C सही उत्तर है।

33. B

Sol. निष्कर्षः

I. सभी रेडियो, टेलीविज़न हैं – गलत है, चूंकि यह एक निश्चित मामला नहीं है।

II. कुछ टेलीविज़न, दरांजिस्टर हैं – गलत है, चूंकि यह एक निश्चित मामला नहीं है।

इसलिए, विकल्प B सही उत्तर है।

34. D

Sol. सुई का उपयोग कपड़े के तुरपन के लिए किया जाता है उसी प्रकार पेन का उपयोग कागज पर लेखन के लिए किया जाता है।

इसलिए, विकल्प D सही उत्तर है।

35. A

Sol. $18 = 4^2 + 2 = 18$

$38 = 6^2 + 2 = 38$

इसी प्रकार,

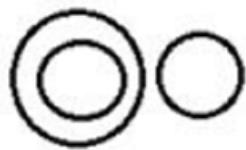
$51 = 7^2 + 2 = 49 + 2 = 51$

$83 = 9^2 + 2 = 81 + 2 = 83$

इसलिए, विकल्प A सही उत्तर है।

36. A

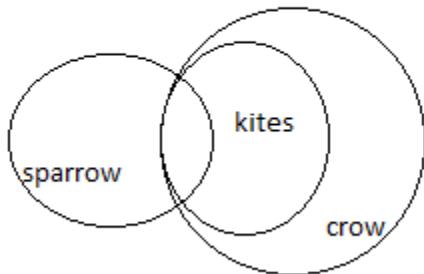
Sol. सेब एक फल है लेकिन गाजर एक सब्जी है इसलिए वेन आरेख जो सबसे अच्छा संबंध दर्शाता है, नीचे दिया गया है।



इसलिए, विकल्प A सही उत्तर है।

37. D

Sol.



निष्कर्षः

- I. सभी स्पैरो, क्रो हैं - गलत है, केवल वे स्पैरो, क्रो हैं जो काइट हैं।
- II. कुछ क्रो, स्पैरो हैं – सही है, चूंकि सभी काइट, क्रो हैं और कुछ स्पैरो, काइट हैं, इसलिए कुछ क्रो, स्पैरो हैं।

इसलिए, विकल्प D सही उत्तर है।

38. A

Sol. यहां तर्क यह है कि अगले समूह में अक्षर पिछले समूह में अक्षरों के स्थानिक मान से -10 होंगे।

$$Z-10=P$$

$$W-10=M$$

$$T-10=j$$

| | | |
|--------|--------|--------|
| T-10=J | J-10=Z | Z-10=P |
| Q-10=G | G-10=W | W-10=M |
| N-10=D | D-10=T | T-10=J |

39. B

Sol. NUISANCE का विपरीत अक्षर = MFRHZMXV

MFRHZMXV के स्थानिक मान का योग = 130

NUISANCE = 130+4=134

इसी प्रकार, ERASURE का विपरीत अक्षर = VIZHFIIV

VIZHFIIV के स्थानिक मान का योग = 102

ERASURE = 102+4=106

PHILLIPS का विपरीत अक्षर = KSROORKH

KSROORKH के स्थानिक मान का योग = 115

PHILLIPS को कूटबद्ध किया जाएगा 115+4=119

इसलिए, विकल्प B सही उत्तर है।

40. C

Sol. तर्क नीचे समझाया गया है -

8+10=18

18+8=26

26+6=32

32+4=36

36+2=38

इसलिए, विकल्प C सही उत्तर है।

41. C

Sol. जब कागज को मोड़ा जाता है और निर्देश के अनुसार काटा जाता है तो निर्मित पैटर्न नीचे दिया गया है -



इसलिए, विकल्प C सही उत्तर है।

42. D

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

अतः $+ \times \div -$ का उपयोग करें

$$78 * 26 * 4 * 13 * 28 = 58$$

$$78 + 26 \times 4 \div 13 - 28$$

BODMAS नियम लागू करने पर

$$78 + 8 - 28$$

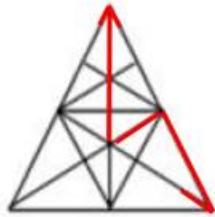
$$86 - 28$$

$$58$$

इसलिए, विकल्प D सही उत्तर है।

43. A

Sol. दी गई आकृति नीचे दी गई आकृति में अंतर्निहित है-



इसलिए, विकल्प A सही उत्तर है।

44. B

Sol. चूंजा, मुर्गी का बच्चा है उसी प्रकार पिल्ला, कुत्ते का बच्चा है।

इसलिए, विकल्प B सही उत्तर है।

45. B

Sol. प्रश्न के अनुसार पांच व्यक्तियों के बैठने की व्यवस्था है

E B D A C

अतः, A, C की बाईं ओर है।

इसलिए, विकल्प B सही उत्तर है।

46. D

Sol. कार में बैठने की व्यवस्था प्रश्न के अनुसार नीचे दी गई है-

| | | |
|---|---|---|
| U | Z | X |
| W | V | Y |

चूंकि व्यक्ति दाएं से बाएं बैठे हैं, इसलिए तीन व्यक्ति y, v, z पिछली सीट पर बैठे हैं, जबकि चौथा व्यक्ति यानी x पहली पंक्ति में दाईं ओर बैठेगा।

इसलिए, विकल्प D सही उत्तर है।

47. A

Sol. प्रश्नवाचक चिन्ह को प्रतिस्थापित करने वाली आकृति नीचे दी गई है-



इसलिए, विकल्प A सही उत्तर है।

48. D

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

इसलिए विकल्प D को हल करें

$$18 \times 7 \div 36 + 78 - 14 = 86$$

$$18 \times 7 - 46 + 78 \div 13 = 86$$

$$18 \times 7 - 46 + 6 = 86$$

$$126-46+6=86$$

$$132-46=86$$

$$86=86$$

इसलिए, विकल्प D सही उत्तर है।

49. B

Sol.

| | |
|-------|-------|
| P+4=T | T+4=X |
| O+3=R | R+3=U |
| W+4=A | A+4=E |
| E+3=H | C+3=F |
| R+4=V | K+4=O |
| C+3=F | I+3=L |
| U+4=Y | N+4=R |
| T+3=W | G+3=J |

इसलिए, विकल्प B सही उत्तर है।

50. D

Sol. यहां अनुसरण किया गया तर्क यह है कि शब्द के अक्षरों को वर्णानुक्रम के अनुसार व्यवस्थित किया जाता है -

COMMITAL → ACILMMOT

इसी प्रकार,

INTEGRAL → AEGILNRT

इसलिए, विकल्प D सही उत्तर है।

51. D

Sol. माना बेलन की वास्तविक त्रिज्या r सेमी है।

$$\text{बेलन की नई त्रिज्या} = r \times \frac{(100-50)}{100} = \frac{50r}{100} = \frac{r}{2}\text{-सेमी}$$

तथा,

वास्तविक बेलन का आयतन = नए बेलन का आयतन

$$\Rightarrow \pi r^2 h = \pi \left(\frac{r}{2}\right)^2 (kh)$$

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

$$\Rightarrow k = 4$$

इसलिए, k का मान 4 है।

अतः विकल्प D सही है।

52. B

Sol. $21 - [29 - \{27 - (43 - \frac{15}{3} \times 12 + 2)\}]$ का मान

BODMAS के नियम का प्रयोग करने पर –

$$= 21 - [29 - \{27 - (43 - 60 + 2)\}]$$

$$= 21 - [29 - \{27 - (-15)\}]$$

$$= 21 - [29 - \{27 + 15\}]$$

$$= 21 - [29 - 42]$$

$$= 21 - (-13)$$

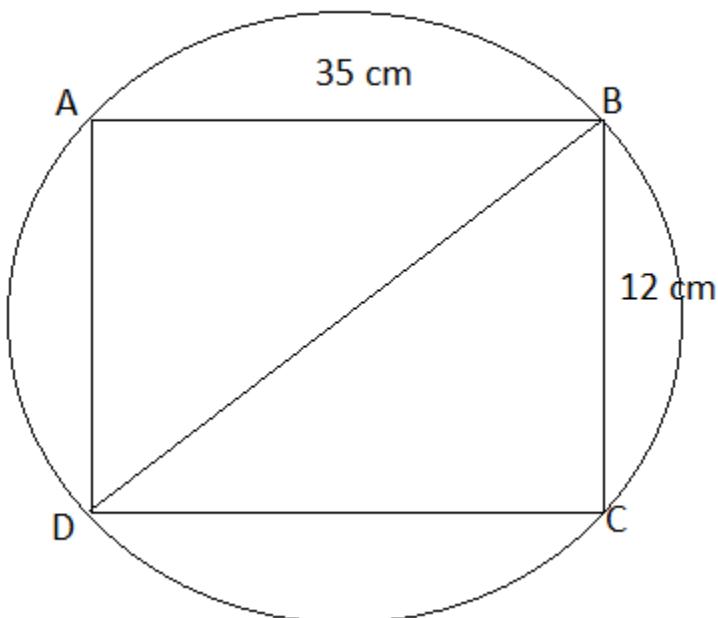
$$= 21 + 13$$

$$= 34$$

अतः विकल्प B सही है।

53. D

Sol.



हम जानते हैं कि:

$$\text{आयत } DB \text{ का विकर्ण} = \sqrt{(35)^2 + (12)^2}$$

$$= \sqrt{1225 + 144}$$

$$= \sqrt{1369}$$

$$= 37 \text{ सेमी}$$

तथा,

$$\text{आयत } DB \text{ का विकर्ण} = \text{वृत्त का व्यास} = 37 \text{ सेमी}$$

$$\text{वृत्त की त्रिज्या} = \frac{37}{2} \text{ सेमी}$$

$$\text{इसलिए, वृत्त की परिधि} = 2\pi r$$

$$= 2 \times \frac{22}{7} \times \frac{37}{2}$$

$$= \frac{814}{7}$$

$$= 116\frac{2}{7} \text{ सेमी}$$

अतः विकल्प D सही है।

54. D

Sol. दिया है:

$$\text{गति } s_1 = 10 \text{ मी/से.} = 10 \times \frac{18}{5} = 36 \text{ किमी/घंटा}$$

हम जानते हैं कि:

$$\text{औसत गति} = \frac{2s_1s_2}{(s_1+s_2)}$$

$$\Rightarrow 45 = \frac{2 \times 36 \times (x)}{(36+x)}$$

$$\Rightarrow 1620 + 45x = 72x$$

$$\Rightarrow 72x - 45x = 1620$$

$$\Rightarrow 27x = 1620$$

$$\Rightarrow x = \frac{1620}{27}$$

$$\Rightarrow x = 60 \text{ किमी/घंटा}$$

इसलिए x का मान 60 किमी/घंटा है।

अतः विकल्प D सही है।

55. B

Sol. हम जानते हैं कि:

$$\text{क्रय मूल्य} = \text{विक्रय मूल्य} \times \frac{100}{(100-\text{हानि}\%)}$$

$$= 242 \times \frac{100}{(100-12)}$$

$$= 242 \times \frac{100}{88}$$

= 275 रुपये

इसलिए 15% का लाभ प्राप्त करने के लिए विक्रय मूल्य = $275 \times \frac{(100+15)}{100} = 275 \times \frac{115}{100} = 316.25$ रुपये

अतः विकल्प B सही है।

56. C

Sol. 2016, 2017 और 2018 के दौरान औसत आयात = $\frac{(420+450+330)}{3} = \frac{1200}{3} = 400$

2016, 2017 और 2018 के दौरान औसत आयात का 87.5% = $400 \times \frac{87.5}{100} = 350$

इसलिए, 2015 में देश का निर्यात 2016, 2017 और 2018 के दौरान औसत आयात का 87.5% है।

अतः विकल्प C सही है।

57. D

Sol. पाँच वर्षों में देश का कुल आयात = $390 + 410 + 420 + 450 + 330 = 2000$ करोड़

2015 में देश का आयात = 410 करोड़

इसलिए, 2015 में आयात का केंद्रीय कोण = $\frac{360}{2000} \times 410 = 73.8\%$

अतः विकल्प D सही है।

58. D

Sol. 2014, 2016 और 2018 में देश का कुल निर्यात = $440 + 370 + 450 = 1260$ करोड़

2015 और 2017 में कंपनी का कुल आयात = $410 + 450 = 860$ करोड़

इसलिए, अभीष्ट प्रतिशत = $\frac{(1260-860)}{860} \times 100 = \frac{400}{860} \times 100 = 46.5\%$

अतः विकल्प D सही है।

59. D

Sol. दिए गए आँकड़ों को आरोही क्रम में व्यवस्थित करने पर

2, 3, 3, 3, 4, 4, 5, 7, 8, 8, 9, 10, 12, 17

दिए गए आँकड़ों में कुल पद $n = 14$

$$\text{माध्यिका } a = \frac{\left[\left(\frac{n}{2} \text{ वां पद} \right) + \left\{ \left(\frac{n}{2} + 1 \right) \text{ वां पद} \right\} \right]}{2}, \text{ जहाँ } n \text{ सम है}$$

$$= \frac{\left[\left(\frac{14}{2} \text{ वां पद} \right) + \left\{ \left(\frac{14}{2} + 1 \right) \text{ वां पद} \right\} \right]}{2}$$

$$= \frac{[(7 \text{ वां पद}) + (8 \text{ वां पद})]}{2}$$

$$= \frac{(5+7)}{2}$$

$$= 6$$

माध्यिका – सेट में सबसे अधिक बार दिखाई देने वाले मान की संख्या।

बहुलक $b = 3$

तथा,

परास $c = \text{अधिकतम मान} - \text{न्यूनतम मान} = 17 - 2 = 15$

इसलिए, $(3a - 2b + c)$ का अभीष्ट मान $= 3 \times 6 - 2 \times 3 + 15 = 18 - 6 + 15 = 27$

अतः विकल्प D सही है।

60. A

Sol. माना कि योग P रूपये है।

हम जानते हैं कि:

$$\text{साधारण ब्याज} = \frac{P \times R \times T}{100}$$

$$\Rightarrow 8820 = \frac{P \times \left(\frac{27}{4}\right) \times \left(\frac{14}{3}\right)}{100}$$

$$\Rightarrow P = \frac{8820 \times 100 \times 4 \times 3}{27 \times 14}$$

$$\Rightarrow P = 28000 \text{ रुपये}$$

तथा,

$$\begin{aligned} 7\frac{1}{2} \text{ वर्ष के बाद } 8\frac{1}{3}\% \text{ पर समान राशि पर साधारण ब्याज} &= \frac{28000 \times \left(\frac{15}{2}\right) \times \left(\frac{25}{3}\right)}{100} \\ &= \frac{28000 \times 15 \times 25}{100 \times 2 \times 3} \\ &= 17500 \text{ रुपये} \end{aligned}$$

$$\text{अतः राशि होगी} = 28000 + 17500 = 45500 \text{ रुपये}$$

अतः विकल्प A सही है।

61. A

Sol. माना सात वर्ष पूर्व A और B की आयु $2x$ और $3x$ थी।

$$A \text{ की वर्तमान आयु} = 2x + 7$$

$$B \text{ की वर्तमान आयु} = 3x + 7$$

प्रश्नानुसार,

$$\Rightarrow \frac{2x+7+3}{3x+7+3} = \frac{5}{7}$$

$$\Rightarrow \frac{2x+10}{3x+10} = \frac{5}{7}$$

$$\Rightarrow 14x + 70 = 15x + 50$$

$$\Rightarrow 15x - 14x = 70 - 50$$

$$\Rightarrow x = 20$$

$$\text{इसलिए, उनकी वर्तमान आयु का योग} = 2x + 7 + 3x + 7 = 5x + 14 = 5 \times 20 + 14 = 100 + 14 = 114 \text{ वर्ष}$$

अतः विकल्प A सही है।

62. C

Sol. हम जानते हैं कि:

$$\text{लाभ प्रतिशत} = \frac{(\text{विक्रय मूल्य} - \text{क्रय मूल्य})}{\text{क्रय मूल्य}} \times 100$$

$$12 \text{ की दर से } 100.80 \text{ रु. के लिए } 100 \text{ सेबों का क्रय मूल्य} = \frac{100.80}{12} \times 100 = 840 \text{ रुपये}$$

$$15 \text{ की दर से } 117 \text{ रु. के लिए } 200 \text{ सेबों का क्रय मूल्य} = \frac{117}{15} \times 200 = 1560 \text{ रुपये}$$

$$300 \text{ सेबों का कुल क्रय मूल्य} = 840 + 1560 = 2400 \text{ रुपये}$$

$$\text{यदि } 10\% \text{ सेब खराब हो गए, तो शेष सेब} = 300 \times \frac{10}{100} = 30$$

$$\text{शेष सेब} = 300 - 30 = 270$$

$$270 \text{ सेबों का } 20 \text{ की दर से } 204 \text{ रुपये में विक्रय मूल्य} = \frac{204}{20} \times 270 = 2754 \text{ रुपये}$$

$$\text{इसलिए, पूरे लेन-देन में अभीष्ट लाभ प्रतिशत} = \frac{(2754 - 2400)}{2400} \times 100 = \frac{354}{2400} \times 100 = 14.75\%$$

अतः विकल्प C सही है।

63. C

Sol. हम जानते हैं कि:

$$\text{मिश्रधन} = P \left(1 + \frac{r}{100}\right)^t$$

प्रश्नानुसार,

$$\Rightarrow \frac{16588.80}{13824} = \frac{P \left(1 + \frac{r}{100}\right)^3}{P \left(1 + \frac{r}{100}\right)^2}$$

$$\Rightarrow \frac{6}{5} = \left(1 + \frac{r}{100}\right)$$

$$\Rightarrow \frac{r}{100} = \frac{6}{5} - 1$$

$$\Rightarrow \frac{r}{100} = \frac{1}{5}$$

$$\Rightarrow r = 20\%$$

$$\text{इसलिए, चौथे वर्ष के अंत में राशि होगी} = 16588.80 \times \frac{(100+20)}{100}$$

$$= 16588.80 \times \frac{120}{100}$$

= 19907 रुपये

अतः विकल्प C सही है।

64. D

Sol. माना X और Y का व्यय क्रमशः 4x और 5x है।

हम जानते हैं कि:

आय = व्यय + बचत

प्रश्नानुसार,

$$\Rightarrow \frac{4x+5000}{5x+17500} = \frac{2}{3}$$

$$\Rightarrow 12x + 15000 = 10x + 35000$$

$$\Rightarrow 12x - 10x = 35000 - 15000$$

$$\Rightarrow 2x = 20000$$

$$\Rightarrow x = 10000 \text{ रुपये}$$

इसलिए, X की आय = $4x + 5000 = 4 \times 10000 + 5000 = 45000$ रुपये

अतः विकल्प D सही है।

65. C

Sol. माना टैंक की क्षमता = 18 और 30 का LCM = 90 लीटर

पाइप A टैंक को 1 मिनट में भर सकता है = $\frac{90}{18} = 5$ लीटर

पाइप B टैंक को 1 मिनट में भर सकता है = $\frac{90}{30} = 3$ लीटर

पाइप A, B और C टंकी को 1 मिनट में भर सकते हैं = $\frac{90}{45} = 2$ लीटर

पाइप C टैंक को 1 मिनट में खाली कर सकता है = $2 - 5 - 3 = -6$ लीटर

इसलिए, टैंक की क्षमता = $\frac{125}{6} \times 90 = 1875$ लीटर

अतः विकल्प C सही है।

66. A

Sol. माना कि A, B और C के हिस्से A की कमी के बाद क्रमशः $3x$, $4x$ और $5x$ हो जाते हैं

A का वास्तविक हिस्सा = $3x + 1200$

अब,

कुल राशि = 16200

$$\Rightarrow 3x + 1200 + 4x + 5x = 16200$$

$$\Rightarrow 12x = 16200 - 1200$$

$$\Rightarrow 12x = 15000$$

$$\Rightarrow x = \frac{15000}{12}$$

$$\Rightarrow x = 1250$$

इसलिए, प्रारंभ में A का हिस्सा = $3x + 1200 = 3 \times 1250 + 1200 = 3750 + 1200 = 4950$ रुपये

अतः विकल्प A सही है।

67. D

Sol. $2\frac{1}{4} \div 1\frac{1}{2}$ of $\left[4\frac{1}{6} - \left(\frac{17}{21} + \frac{4}{3} \times 2\frac{1}{8} \div 1\frac{1}{6}\right) \text{ of } \left(\frac{3}{4} - \frac{5}{7}\right)\right]$ का मान

BODMAS के नियम का प्रयोग करने पर –

$$= \frac{9}{4} \div \frac{3}{2} \text{ of } \left[\frac{25}{6} - \left(\frac{17}{21} + \frac{4}{3} \times \frac{17}{8} \times \frac{6}{7} \times \frac{4}{3} - \frac{5}{7}\right)\right]$$

$$= \frac{9}{4} \div \frac{3}{2} \text{ of } \left[\frac{25}{6} - \left(\frac{17}{21} + \frac{68}{21} - \frac{5}{7} \right) \right]$$

$$= \frac{9}{4} \div \frac{3}{2} \text{ of } \left[\frac{25}{6} - \left(\frac{17+68-15}{21} \right) \right]$$

$$= \frac{9}{4} \div \frac{3}{2} \text{ of } \left[\frac{25}{6} - \frac{70}{21} \right]$$

$$= \frac{9}{4} \div \frac{3}{2} \text{ of } \left[\frac{25}{6} - \frac{10}{3} \right]$$

$$= \frac{9}{4} \div \frac{3}{2} \text{ of } \left[\frac{25-20}{6} \right]$$

$$= \frac{9}{4} \times \frac{2}{3} \times \frac{6}{5}$$

$$= \frac{9}{5}$$

$$= 1\frac{4}{5}$$

अतः विकल्प D सही है।

68. C

Sol. माना कक्षा में विद्यार्थियों की संख्या प्रारंभ में x है

प्रश्नानुसार,

$$\Rightarrow 58.5 \times (x) + 49 + 51 + 54 + 68 = (x + 4) \times 58.3$$

$$\Rightarrow 58.5x + 222 = 58.3x + 233.2$$

$$\Rightarrow 58.5x - 58.3x = 233.2 - 222$$

$$\Rightarrow 0.2x = 11.2$$

$$\Rightarrow x = \frac{11.2}{0.2}$$

$$\Rightarrow x = 56$$

इसलिए कक्षा में विद्यार्थियों की संख्या प्रारम्भ में 56 थी।

अतः विकल्प C सही है।

69. B

Sol. माना कि तीन धनात्मक संख्याएँ x, y और z हैं

प्रश्नानुसार,

$$\frac{(x+y)}{2} + z = 181$$

$$\Rightarrow x + y + 2z = 362 \quad \dots\dots \text{समीकरण 1}$$

$$\frac{(y+z)}{2} + x = 172$$

$$\Rightarrow 2x + y + z = 344 \quad \dots\dots \text{समीकरण 2}$$

$$\frac{(z+x)}{2} + y = 160$$

$$\Rightarrow z + x + 2y = 320 \quad \dots\dots \text{समीकरण 3}$$

अब समीकरण 1, 2 और 3 को जोड़ने पर

$$\Rightarrow 4x + 4y + 4z = 362 + 344 + 320$$

$$\Rightarrow x + y + z = \frac{1026}{4}$$

$$\Rightarrow x + y + z = 256.5$$

इसलिए, x, y और z का अभीष्ट औसत = $\frac{x+y+z}{3} = \frac{256.5}{3} = 85.5$

अतः विकल्प B सही है।

70. A

Sol. माना शांत जल में नाव की गति = x किमी/घंटा

धारा के अनुकूल नाव की गति = (x + 6) किमी/घंटा

धारा के प्रतिकूल नाव की गति = (x - 6) किमी/घंटा

प्रश्नानुसार,

$$\Rightarrow \frac{78}{(x+6)} + \frac{42}{(x-6)} = 6$$

$$\Rightarrow \frac{78x - 468 + 42x + 252}{(x+6)(x-6)}$$

$$\Rightarrow \frac{120x - 216}{x^2 - 36} = 6$$

$$\Rightarrow 20x - 36 = x^2 - 36$$

$$\Rightarrow x^2 = 20x$$

$$\Rightarrow x = 20 \text{ किमी/घंटा}$$

इसलिए, शांत जल में 100 किमी की दूरी तय करने में लगा अभीष्ट समय = $\frac{100}{20} = 5$ घंटे

अतः विकल्प A सही है।

71. A

Sol. $\frac{1}{5} \div \frac{3}{10}$ of $\frac{4}{9} - \frac{4}{5} \times 1\frac{1}{9} \div \frac{8}{15} + \frac{3}{4} + \frac{3}{4} \div \frac{1}{2}$ का मान है

BODMAS के नियम का प्रयोग करने पर –

$$= \frac{1}{5} \times \frac{10}{3} \times \frac{9}{4} - \frac{4}{5} \times \frac{10}{9} \times \frac{15}{8} + \frac{3}{4} + \frac{3}{4} \times 2$$

$$= \frac{3}{2} - \frac{5}{3} + \frac{3}{4} + \frac{3}{2}$$

$$= \frac{18-20+9+18}{12}$$

$$= \frac{25}{12}$$

अतः विकल्प A सही है।

72. D

Sol. हम जानते हैं कि:

$$\text{लाभ प्रतिशत} = \frac{(\text{विक्रय मूल्य} - \text{क्रय मूल्य})}{\text{क्रय मूल्य}} \times 100$$

माना वस्तु का अंकित मूल्य x रुपये है

$$\text{वस्तु का क्रय मूल्य} = \frac{4}{5} \times (x) = \frac{4x}{5}$$

$$\text{वस्तु का विक्रय मूल्य} = (x) \times \frac{(100+16)}{100} = \frac{116x}{100} = \frac{29x}{25}$$

$$\text{इसलिए, अभीष्ट लाभ प्रतिशत} = \frac{\left(\frac{29x}{25} - \frac{4x}{5}\right)}{\left(\frac{4x}{5}\right)} \times 100$$

$$= \frac{\left(\frac{29x - 20x}{25}\right)}{\left(\frac{4x}{5}\right)} \times 100$$

$$= \frac{(9x) \times 5}{25 \times (4x)} \times 100$$

$$= 45\%$$

अतः विकल्प D सही है।

73. D

Sol. दिया है:

स्कूल A से परीक्षा देने वाले छात्रों की संख्या = 300

स्कूल B से परीक्षा देने वाले छात्रों की संख्या = 480

स्कूल A और B से परीक्षा में बैठने वाले छात्रों की कुल संख्या = $300 + 480 = 780$

$$\text{स्कूल A से अनुत्तीर्ण छात्रों की संख्या} = 300 \times \frac{\left(33\frac{1}{3}\right)}{100} = 300 \times \frac{100}{100 \times 3} = 100$$

स्कूल A से उत्तीर्ण छात्रों की संख्या = $300 - 100 = 200$

$$\text{स्कूल A और B से उत्तीर्ण छात्रों की संख्या} = 780 \times \frac{60}{100} = 468$$

स्कूल B से उत्तीर्ण छात्रों की संख्या = $468 - 200 = 268$

स्कूल B से अनुत्तीर्ण छात्रों की संख्या = $480 - 268 = 212$

$$\text{इसलिए स्कूल B से अनुत्तीर्ण प्रतिशत} = \frac{212}{480} \times 100 = \frac{265}{6} = 44\frac{1}{6}\%$$

अतः विकल्प D सही है।

74. C

Sol. दी गई संख्याओं का अंतर लेने पर

$$4672 - 3820 = 852$$

$$6163 - 4672 = 1491$$

$$6163 - 3820 = 2343$$

सबसे बड़ी संख्या X = 852, 1491 और 2343 का HCF = 213

अब,

जब 1035 को 213 से भाग देने पर भागफल 4 प्राप्त होता है।

अतः विकल्प C सही है।

75. B

Sol. माना कुल कार्य = 36 इकाई

$$A \text{ द्वारा } 1 \text{ दिन में किया गया कार्य} = \frac{36}{12} = 3 \text{ इकाई}$$

$$B \text{ द्वारा } 1 \text{ दिन में किया गया कार्य} = \frac{36}{18} = 2 \text{ इकाई}$$

$$A \text{ द्वारा } 4 \text{ दिनों में किया गया कार्य} = 4 \times 3 = 12 \text{ इकाई}$$

$$B \text{ द्वारा } 4 \text{ दिनों में किया गया कार्य} = 4 \times 2 = 8 \text{ इकाई}$$

$$\text{शेष कार्य} = 36 - 12 - 8 = 36 - 20 = 16 \text{ इकाई}$$

$$C \text{ द्वारा } 6 \text{ दिनों में किया गया कार्य} = 16 \text{ इकाई}$$

$$A, B \text{ और } C \text{ के हिस्से का अनुपात} = 12 : 8 : 16 = 3 : 2 : 4$$

$$\text{इसलिए, } C \text{ का हिस्सा} = \frac{3240}{(3+2+4)} \times 4 = \frac{3240}{9} \times 4 = 1440 \text{ रुपये}$$

अतः विकल्प B सही है।

76. A

Sol. • परणब मुखर्जी ने भारत के योजना आयोग के उपाध्यक्ष के रूप में कार्य किया।

- उन्हें 2019 में भारत के सर्वोच्च नागरिक सम्मान भारत रत्न से सम्मानित किया गया था।
- उन्होंने 2012 से 2017 तक भारत के 13वें राष्ट्रपति के रूप में कार्य किया।
- योजना आयोग भारत सरकार की एक संस्था थी, जिसने भारत की पंचवर्षीय योजनाएँ तैयार की।
- रामास्वामी वेंकटरमन ने भारत के आठवें राष्ट्रपति और भारत के सातवें उपराष्ट्रपति के रूप में कार्य किया।
- प्रतिभा पाटिल भी भारत की पहली और अब तक की एकमात्र महिला राष्ट्रपति थीं।

77. A

Sol. • भारत के राष्ट्रपति भारत के सभी केंद्रीय विश्वविद्यालयों के 'आगंतुक' (विजिटर) हैं।

- वह भारत गणराज्य के राज्य के प्रमुख हैं।
- वह भारतीय सशस्त्र बलों के कार्यकारी और कमांडर-इन-चीफ के नाममात्र प्रमुख हैं।
- भारत गणराज्य का उपराष्ट्रपति भारत के राज्य के प्रमुख का उप-राष्ट्रपति होता है।
- वह दूसरा सर्वोच्च संवैधानिक कार्यालय है और वरीयता क्रम में दूसरे स्थान पर है।
- वह राज्य सभा के सभापति के रूप में भारत की संसद के एक अधिकारी भी है।

78. D

Sol. • घूमर राजस्थान का राजकीय नृत्य है।

- यह भील जनजाति थी जिसने इसे देवी सरस्वती की पूजा के लिए किया था।
- यह मुख्य रूप से घूंघट वाली महिलाओं द्वारा किया जाता है जो आकर्षक कपड़े पहनती हैं।
- इसमें आमतौर पर एक विस्तृत वृत्त के अंदर और बाहर जाने के दौरान घिरनी (पायरेटिंग) करने वाले कलाकार शामिल होते हैं।
- कठपुतली एक स्ट्रंग कठपुतली थियेटर है जो राजस्थान भारत की पैदाइश है और भारतीय कठपुतली का सबसे लोकप्रिय रूप है।

- कच्छी घोड़ी एक भारतीय लोक नृत्य है जिसकी उत्पत्ति राजस्थान के शेखावाटी क्षेत्र में हुई थी।

- इसमें नर्तकों, गायकों और संगीतकारों द्वारा संयुक्त प्रदर्शन शामिल है।

79. B

Sol. • सिलिका क्वाटर्ज का प्राथमिक घटक है।

- यह सिलिकॉन का ऑक्साइड है और आमतौर पर सफेद से रंगहीन और पानी में अघुलनशील होता है।

- यह पृथ्वी पर सबसे प्रचुर मात्रा में पायी जाने वाली सामग्री है और यह सिलिकॉन डाइऑक्साइड से बना अकार्बनिक सिरेमिक सामग्री का सामान्य नाम है।

- क्वाटर्ज पृथ्वी की पपड़ी में दूसरा सबसे प्रचुर मात्रा में पाया जाने वाला खनिज है।

- यह लगभग सभी अम्लीय आग्नेय, कायांतरित और अवसादी चट्टानों में पाया जाता है।

- एल्युमिनियम पृथ्वी की पपड़ी में सबसे प्रचुर मात्रा में धातु है लेकिन प्रकृति में शायद ही कभी पाया जाता है।

80. D

Sol. • हरमनप्रीत कौर ICC महिला T20 विश्व कप 2020 में भारतीय टीम की कप्तान थीं।

- वह महिला 2020 अंतर्राष्ट्रीय मैच में शतक बनाने वाली भारत की पहली महिला बनीं।

- 2020 आईसीसी महिला T20 विश्व कप सातवां आईसीसी महिला T20 विश्व कप टूर्नामेंट था।

- यह ऑस्ट्रेलिया में 21 फरवरी से 8 मार्च 2020 के बीच आयोजित किया गया था।

- ऋचा घोष को पहली बार मई 2021 में केंद्रीय अनुबंध से सम्मानित किया गया था।

- शेफाली वर्मा भारत के लिए महिला 2020 अंतर्राष्ट्रीय मैच में खेलने वाली सबसे कम आयु की क्रिकेटर बनीं।

81. D

Sol. • शाक्य सिंह सेन विज्ञान और प्रौद्योगिकी 2019 के लिए शांति स्वरूप भटनागर पुरस्कार के प्राप्तकर्ता नहीं थे।

- विज्ञान और प्रौद्योगिकी के लिए शांति स्वरूप भटनागर पुरस्कार भारत में एक विज्ञान पुरस्कार है।

- यह वैज्ञानिक और औद्योगिक अनुसंधान परिषद द्वारा प्रतिवर्ष दिया जाता है।

- यह जीव विज्ञान, रसायन विज्ञान, पर्यावरण विज्ञान, इंजीनियरिंग, गणित, चिकित्सा और भौतिकी में उल्लेखनीय और उत्कृष्ट अनुसंधान, अनुप्रयुक्ति या मौलिक के लिए दिया जाता है।

- इसका नाम वैज्ञानिक और औद्योगिक अनुसंधान परिषद के संस्थापक निदेशक शांति स्वरूप भटनागर के नाम पर रखा गया है।

- इसे पहली बार 1958 में और भारत में बहु-विषयक विज्ञान में सबसे प्रतिष्ठित पुरस्कार से सम्मानित किया गया था।

82. A

Sol. ● पृथ्वी के वायुमंडल में आर्गन का अनुमानित प्रतिशत योगदान 1% है।

- आर्गन पृथ्वी के वायुमंडल में तीसरी सबसे प्रचुर मात्रा में पाई जाने वाली गैस है।

- यह पृथ्वी की पपड़ी में सबसे प्रचुर मात्रा में नोबल गैस है जिसमें पपड़ी का 0.00015% शामिल है।

- यह तरल हवा के भिन्नात्मक आसवन द्वारा औद्योगिक रूप से निकाला जाता है।

- यह ज्यादातर जोड़ाई (वेलिंग) और अन्य उच्च तापमान औद्योगिक प्रक्रियाओं में एक अकिरण परिरक्षण गैस के रूप में उपयोग किया जाता है।

- इसका उपयोग उद्दीप्त, प्रतिदीप्ति प्रकाश और अन्य गैस-निर्वहन ट्यूब में भी किया जाता है।

83. D

Sol. ● बैंक के ऋण और अग्रिम कार्यों को प्रदान करना 'संपार्शिक' शब्द से जुड़ा होगा।

- संपार्शिक एक संपत्ति को संदर्भित करता है जिसे एक ऋणदाता ऋण के लिए सुरक्षा के रूप में स्वीकार करता है।

- यह ऋण के उद्देश्य के आधार पर अचल संपत्ति या अन्य प्रकार की संपत्ति का रूप ले सकता है।

- यह ऋणदाता के लिए सुरक्षा के रूप में कार्य करता है और यह उधारदाताओं के लिए जोखिम को कम करता है।

- चेक की वसूली बैंकों द्वारा की जाने वाली एक आधारभूत सेवा है।

- पोर्टफोलियो प्रबंधन एक संगठन के कार्यक्रमों और परियोजनाओं का चयन, प्राथमिकता और नियंत्रण है, जो इसके रणनीतिक उद्देश्यों और वितरित करने की क्षमता के अनुरूप है।

84. A

Sol. ● स्टेनली जलाशय तमिलनाडु में स्थित है।

- यह दक्षिण भारत में मछली पकड़ने के सबसे बड़े जलाशयों में से एक है और इसके जल का मुख्य स्रोत कावेरी नदी है।

- यह 1934 में बनकर तैयार हुआ था और यह भारत में इस प्रकार का सबसे बड़ा जलाशय है।

- तमिलनाडु अपने मंदिरों, त्योहारों और कला के उत्सव के लिए प्रसिद्ध है।

- गोवा क्षेत्रफल के हिसाब से भारत का सबसे छोटा और जनसंख्या के हिसाब से चौथा सबसे छोटा राज्य है और अपने समुद्र तटों और पूजा स्थलों के लिए प्रसिद्ध है।
- महाराष्ट्र भारत के सबसे बड़े वाणिज्यिक और औद्योगिक केंद्रों में से एक है।

85. A

Sol. • 31 जुलाई 2020 तक बृहस्पति के 79 प्राकृतिक उपग्रह थे।

- यह सूर्य से पाँचवाँ ग्रह है और सौरमंडल का सबसे बड़ा ग्रह है।
- यह पृथ्वी के रात्रि आकाश में तीसरी सबसे चमकीली प्राकृतिक वस्तु है।
- यह सौरमंडल का सबसे विशाल ग्रह है और यह अपनी धारियों और बड़े लाल धब्बे के लिए जाना जाता है।
- यह एक कमजोर ग्रहीय वलय प्रणाली और एक शक्तिशाली चुंबकमंडल है।
- यह सौर मंडल का सबसे पुराना ग्रह है और सौर मंडल में सबसे गहरा ग्रहीय वातावरण है।

86. C

Sol. • मांडवी कर्नाटक की पूर्व की ओर बहने वाली नदी नहीं है।

- इसे महादयी या महादेई नदी के नाम से भी जाना जाता है और इसे भारतीय राज्य गोवा की जीवन रेखा के रूप में वर्णित किया गया है।
- इस नदी के पानी का बंटवारा कर्नाटक और गोवा की सरकारों के बीच विवाद का कारण है।
- भीमा नदी पश्चिमी भारत और दक्षिण भारत की एक प्रमुख नदी है और 861 किलोमीटर की लंबी यात्रा के लिए दक्षिण-पूर्व में बहती है।
- तुंगभद्रा नदी कुदली में तुंगा नदी और भद्रा नदी के संगम से बनती है।
- मंजीरा नदी गोदावरी नदी की एक सहायक नदी है।
- यह महाराष्ट्र, कर्नाटक और तेलंगाना राज्यों से होकर गुजरती है।

87. D

Sol. • राजा शशांक, जिसके खिलाफ हर्षवर्धन ने युद्ध की घोषणा की, गौड़ साम्राज्य का शासक था।

- वह बंगाल क्षेत्र में एक एकीकृत राज्य व्यवस्था के पहले स्वतंत्र राजा थे।
- भारतीय उपमहाद्वीप पर शास्त्रीय काल के दौरान गौड़ साम्राज्य एक उत्कृष्ट साम्राज्य था।
- इसकी उत्पत्ति बंगाल के क्षेत्र में चौथी शताब्दी ई. या संभवतः पहले हुई थी।

- मगध ने जैन धर्म और बौद्ध धर्म के विकास में महत्वपूर्ण भूमिका निभाई।
- कान्यकुब्ज साम्राज्य अल्पकालिक था और इसे अंततः आधार साम्राज्य के रूप में जाना जाने लगा, जिसके लिए भविष्य के साम्राज्यों ने गर्मजोशी से चुनाव लड़ा।

88. D

Sol. ● भंबावली वज्रई (**Bhambavli Vajrai**) जलप्रपात महाराष्ट्र में स्थित है।

- यह भारत में उर्मोदी नदी पर स्थित एक जलप्रपात है।
- तीनों स्तरों को मिलाकर झरने की ऊँचाई 560 मीटर है और यह भारत का दूसरा सबसे ऊँचा गोता लगाने वाला झरना है।
- यह पश्चिमी घाट के सह्याद्री पहाड़ियों में स्थित है और यह महाराष्ट्र के सबसे अच्छे झरनों में से एक है।
- महाराष्ट्र आश्चर्यजनक झरनों की अधिकता का घर है, लेकिन लोकप्रियता के मामले में वज्रई झरना उन सभी को पीछे छोड़ देता है।
- उर्मोदी नदी महाराष्ट्र में भंबावली वज्रई जलप्रपात का आधार है।

89. B

Sol. ● राव इंदरजीत सिंह 31 जुलाई 2020 तक योजना मंत्रालय के राज्य मंत्री (स्वतंत्र परभार) थे।

- उन्हें हरियाणा के अहिरवाल/यादव बेल्ट के सबसे शक्तिशाली नेताओं में से एक माना जाता है।
- शरीपद येसो नाइक भारत के पर्यटन और बंदरगाह, नौवहन और जलमार्ग राज्य मंत्री के रूप में कार्य करते हैं।
- किरेन रिजिजू भारत सरकार में कानून और न्याय मंत्री के रूप में कार्य करते हैं।
- संतोष कुमार गंगवार वर्तमान में सार्वजनिक उपकरणों की समिति के अध्यक्ष हैं।

90. C

Sol. ● यूके सरकार के आंकड़ों के अनुसार 2019-20 के दौरान भारत यूके में प्रत्यक्ष विदेशी निवेश का दूसरा सबसे बड़ा स्रोत था।

- भारतीय कंपनियों ने यूके में कम से कम 99 परियोजनाओं में निवेश किया और 4,800 से अधिक रोजगार सुजित किए हैं।
- ब्रिटेन की अर्थव्यवस्था ने विश्वभर से निवेश आकर्षित करते हुए अपनी अंतर्निहित मज़बूती दिखाई।
- प्रत्यक्ष विदेशी निवेश एक देश में एक व्यवसाय में दूसरे देश में स्थित एक इकाई द्वारा स्वामित्व को नियन्त्रित करने के रूप में एक निवेश है।
- यह इकिवटी पूँजी, दीर्घकालिक पूँजी और अल्पकालिक पूँजी का योग है।

91. A

- किरण मजमदार शॉ को 'द मेडिसिन मेकर पावर लिस्ट 2020' में बायोफर्मासिटिकल के क्षेत्र में शीर्ष 20 परेणादायक नेताओं में शामिल

Sol. किया गया है।

- वह बायोकॉन लिमिटेड और बायोकॉन बायोलॉजिक्स लिमिटेड की कार्यकारी अध्यक्ष और संस्थापक हैं।
- अजय पिरामल भारत के प्रमुख उद्योगपतियों और परोपकारी लोगों में से एक हैं और पिरामल समूह के अध्यक्ष हैं।
- दिलीप सांघवी एक भारतीय अरबपति व्यवसायी हैं और देश के सबसे अमीर लोगों में से एक हैं।
- उन्होंने सन फार्मास्युटिकल की स्थापना की और आईआईटी बॉम्बे में बोर्ड ऑफ गवर्नर्स के अध्यक्ष हैं।

92. B

Sol. • पुलेला गोपीचंद अगस्त 2020 तक भारतीय बैडमिंटन टीम के मुख्य कोच थे।

- वह भारत की राष्ट्रीय बैडमिंटन टीम के मुख्य राष्ट्रीय कोच हैं।
- बैडमिंटन एक रैकेट खेल है जिसे रैकेट का उपयोग करके नेट पर शटलकॉक को मारने के लिए खेला जाता है।
- इसे अक्सर एक यार्ड या समुद्र तट पर एक आकस्मिक बाहरी गतिविधि के रूप में खेला जाता है।
- कुश्ती युद्ध के सबसे पुराने रूपों में से एक का प्रतिनिधित्व करता है।
- जूडो एक मार्शल आर्ट है जिसका जन्म जापान में हुआ था और अब इसे विश्वभर में एक ओलंपिक खेल के रूप में जाना जाता है।

93. A

Sol. • 'ट्रैकोमा' नामक बीमारी से आंखें सीधे प्रभावित होती हैं।

- ट्रैकोमा बैकटीरिया क्लैमाइडिया ट्रैकोमैटिस के संक्रमण के कारण होता है।
- यह लगभग 1.9 मिलियन लोगों के अंधेपन या दृश्य हानि के लिए जिम्मेदार है।
- यह संक्रामक मूल के रोके जा सकने वाले अंधेपन का विश्व का प्रमुख कारण है।
- यह एक रोके जाने योग्य बीमारी है जो खराब स्वच्छता और सफाई के परिणामस्वरूप होती है।
- लीवर सबसे भारी आंतरिक अंग और मानव शरीर की सबसे बड़ी ग्रंथि दोनों है।

94. A

Sol. • वरुण (नेपच्यून) सौरमंडल का सबसे तेज हवा वाला ग्रह है।

- यह सूर्य से आठवां और सबसे दूर ज्ञात सौर ग्रह है।

- यह व्यास के हिसाब से चौथा सबसे बड़ा ग्रह है और तीसरा सबसे विशाल ग्रह है।
- यह सौर मंडल का एकमात्र ऐसा ग्रह है जिसे अनुभवजन्य अवलोकन के बजाय गणितीय भविष्यवाणी से पाया जाता है।
- अरुण सूर्य से सातवां ग्रह है और हमारे सौर मंडल में तीसरा सबसे बड़ा व्यास है।
- इसका तीसरा सबसे बड़ा ग्रह तिरज्या और सौर मंडल में चौथा सबसे बड़ा ग्रह दरव्यमान है।

95. A

Sol. • छाया कठपुतली, थिएटर परंपरा 'थोलू बोम्मलता' आंध्र प्रदेश राज्य से संबंधित है।

- इसका शाब्दिक अर्थ "चमड़े की कठपुतलियों का नृत्य" है।
- इसके कलाकार घूमकर मनोरंजन करने वालों और पैदल चलने वालों के एक समूह का हिस्सा हैं जो एक वर्ष के दौरान गांवों से गुजरते हैं।
- आंध्र प्रदेश क्षेत्रफल के हिसाब से सातवां सबसे बड़ा और दसवां सबसे अधिक आबादी वाला राज्य है।
- यह 1 अक्टूबर 1953 को भारत में भाषाई आधार पर बनने वाला पहला राज्य था।
- महाराष्ट्र भारत के सबसे बड़े वाणिज्यिक और औद्योगिक केंद्रों में से एक है।

96. D

Sol. • बाघ यतीन ने जर्मनी के सहयोग से अंगरेजों के खिलाफ एक सशस्त्र विद्रोह की कल्पना की।

- वह युगांतर पार्टी के प्रमुख नेता थे जो बंगाल में क्रांतिकारी स्वतंत्रता कार्यकर्ताओं का केंद्रीय संघ था।
- खुदीराम बोस भारतीय स्वतंत्रता आंदोलन के सबसे कम आयु के शहीदों में से एक थे।
- वह बंगाल के पहले भारतीय क्रांतिकारियों में से एक थे जिन्हें अंगरेजों ने फांसी दी थी।
- अशफाकउल्ला खान हिंदुस्तान सोशलिस्ट रिपब्लिकन एसोसिएशन के सह-संस्थापक थे।
- परफुल्ल ने आत्महत्या कर ली जब वह पुलिस द्वारा गिरफ्तार किया जाने वाला था।

97. A

Sol. • बाबा रामचंद्र ने मुख्य रूप से अवध में औपनिवेशिक शासन के दौरान किसान संघर्ष का नेतृत्व किया।

- वह कमला कांत तिरपाठी के इतिहास पर आधारित उपन्यास "बेदखल" के प्रमुख पात्रों में से एक हैं।
- अवध को भारत के अन्न भंडार के रूप में जाना जाता है और यह दोआब के नियंत्रण के लिए रणनीतिक रूप से महत्वपूर्ण था।

- यह एक धनी राज्य था, जो मराठों, अंग्रेजों और अफगानों के खतरों के खिलाफ अपनी स्वतंत्रता बनाए रखने में सक्षम था।

- मैसूर साम्राज्य दक्षिणी भारत में एक क्षेत्र था।

- यह हिंदू वोडेयार परिवार द्वारा अधिकांश भाग के लिए स्थापित और शासित था।

98. A

Sol. • नंद किशोर आचार्य हिंदी कविता पुस्तक 'छीलते हुए अपने को' के लेखक हैं।

- वह इंटरनेशनल इंस्टीट्यूट ऑफ इंफॉर्मेशन टेक्नोलॉजी, हैदराबाद में प्रोफेसर एमेरिटस हैं।

- जावेद अख्तर को 2020 में रिचर्ड डॉकिन्स अवार्ड मिला।

- राहत इंदौरी सबसे लोकप्रिय भारतीय कवियों में से एक थे, जिनकी 11 अगस्त 2020 को कोविड -19 से संबंधित जटिलताओं से मृत्यु हो गई।

- गुलजार एक ऑस्कर विजेता भारतीय फ़िल्म निर्देशक, गीतकार और कवि हैं।

- कवि के रूप में उनकी कुछ महान कृतियों का संग्रह है।

99. B

Sol. • लोक नाट्य रूप 'रणमाले' पारंपरिक रूप से गोवा से संबंधित है।

- रणमाले लोकप्रिय भारतीय महाकाव्यों, रामायण और महाभारत की पौराणिक कहानियों पर आधारित एक कर्मकांड और लोक रंगमंच है।

- यह होली के त्योहार के दौरान किया जाता है जिसे गोवा और कोंकण क्षेत्र में शिंगमो के रूप में मनाया जाता है।

- गोवा क्षेत्रफल के हिसाब से भारत का सबसे छोटा और जनसंख्या के हिसाब से चौथा सबसे छोटा राज्य है।

- यह सभी भारतीय राज्यों में प्रतिव्यक्ति उच्चतम स्कल घरेलू उत्पाद है।

- यह प्रतिवर्ष बड़ी संख्या में अंतर्राष्ट्रीय और घरेलू पर्यटकों द्वारा दौरा किया जाता है।

100. B

Sol. • जुलाई 2020 में, केंद्रीय सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय ने उद्यमों के वर्गीकरण और पंजीकरण की प्रक्रिया को सुविधाजनक बनाने के लिए एक पंजीकरण पोर्टल लॉन्च किया। पोर्टल का नाम उद्यम रजिस्ट्रेशन पोर्टल है।

- यह MSME के पंजीकरण के लिए एकमात्र सरकारी पोर्टल है।

- यह एक नए MSME को पंजीकृत करने या पहले से पंजीकृत EM-II को फिर से पंजीकृत करने के लिए एक आधिकारिक पोर्टल है।

- सूक्ष्म, लघु मध्यम उद्यम मंत्रालय इस पोर्टल का रखरखाव करता है।
- यह एक उपयोगकर्ता के अनुकूल पोर्टल है और यह मुफ्त और कागज रहित पंजीकरण प्रदान करता है।