

SECTION A

SCIENCE (Question No 1 to 10)

- 1 Water vapour is different from water as
- [A] Water vapour occupies space
 - [B] Water vapour has no fixed shape
 - [C] Water vapour has no mass
 - [D] Water vapour has no fixed volume

- 2 Select insectivorous plant



[A]



[B]



[C]



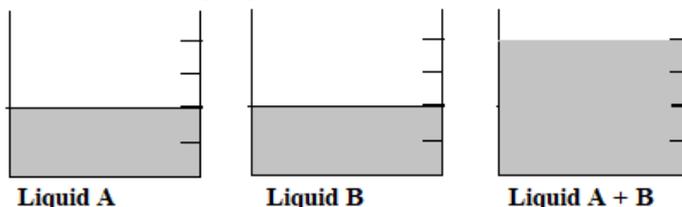
[D]

- 3 Arun tried to stop a fast moving cricket ball with his hands. The ball neither changed its speed nor its direction. This means Arun
- [A] Did not apply any force
 - [B] Applied a large force
 - [C] Applied only frictional force
 - [D] Applied a force that was very small

- 4 The function of small intestine is to

- [A] Remove waste materials
- [B] Absorb digested food
- [C] Produce bile
- [D] Kills harmful germs

- 5 Carefully look at the following figure.



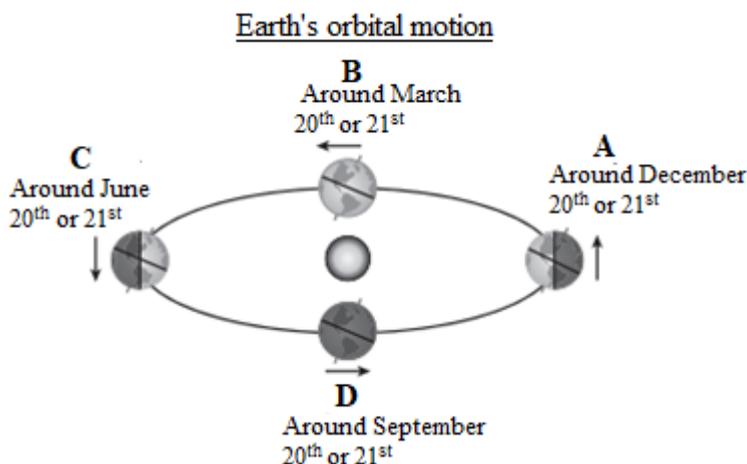
This shows that

- [A] Liquid A is completely soluble in liquid B
- [B] Liquid A is completely insoluble in liquid B
- [C] Liquid B is partially soluble in liquid A
- [D] Liquid B is partially insoluble in liquid A

- 6 Generally plants produce oxygen. But Mushrooms cannot produce oxygen because
- [A] They do not respire .
- [B] They do not use energy.
- [C] They do not move from place to place.
- [D] They do not have chlorophyll

- 7 The part of earth comprising water is called
- [A] Atmosphere [B] Hydrosphere
- [C] Lithosphere [D] None of the above

- 8 The orbit of Earth around the sun is shown in the following diagram.



In December, the earth is in position A, which position will earth be in after 18 months have passed?

- [A] At position A [B] At position B
- [C] At position C [D] At position D

- 9 A runner participating in a race takes some glucose just before the race begins. This means that glucose
- [A] Makes running easier [B] Build muscles instantly
- [C] Gives energy instantly [D] Stop sweating of the body

- 10 The given options give names of four birds by cutting every alternate letter starting from first. All of these have similar feet except one. Select this odd one out.
- [A] PDJUKCLKO [B] MSTWVABNS
- [C] QPGERNEGPUSIONL [D] AOESMTRSRTIUCUHO

MATHEMATICS (Question No 11 to 30)

11 The expanded form of 300123 is

- [A] $300000 + 100 + 20 + 3$
[B] $300000 + 00000 + 0000 + 20 + 3$
[C] $300000 + 000 + 100 + 20 + 3$
[D] $300000 + 00 + 100 + 20 + 3$

12 Find the dividend if divisor = 21, quotient = 43 and remainder = 19.

- [A] 920 [B] 922
[C] 923 [D] 924

13 If **00:01** is the first minute of the day, then last minute of the day is

- [A] 12:59 [B] 24:59
[C] 23:59 [D] 24:00

14 How many **X** symbols are needed to represent 39 in Roman system?

- [A] 7 [B] 6
[C] 4 [D] 3

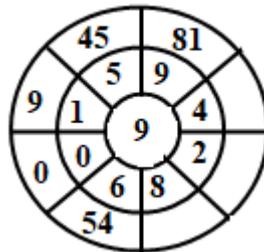
15 What is the smallest possible number of children in a family where each child has at least one brother and at least one sister?

- [A] 4 [B] 5
[C] 2 [D] 3

16 Manju is thinking of a number. Twice her number is same as her number plus 5. What is her number?

- [A] 2 [B] 3
[C] 5 [D] 10

17 Fill in the blanks



- [A] 54, 0, 9
[B] 36, 18, 72
[C] 45, 81, 72
[D] 4, 2, 18

18 The number of 25 paise coins in ₹ 100 is

- [A] 4 [B] 40
[C] 100 [D] 400

19 The distance between the centre of the circle to any point on the circle is called

[A] Centre

[B] Radius

[C] Chord

[D] Diameter

20 There are 8 chairs at each table in a restaurant. There are 96 chairs in all. Which number sentence can be used to find the number of tables in the restaurant?

[A] $8 \times 96 = \square$

[B] $96 - \square = 8$

[C] $8 + \square = 96$

[D] $96 \div 8 = \square$

21 Every day Sindhu and her family have 2 newspapers delivered to their house. When they came back from a trip, there were 14 newspapers waiting for them. Which one of the following number sentences can be used to find the number of days they were gone?

[A] $14 \div 2 = \square$

[B] $14 + 2 = \square$

[C] $14 - 2 = \square$

[D] $14 \times 2 = \square$

22 A car travelled from town A to B and then from town B to town C. The distance between towns A & B is 4364 km and between towns B & C is 5473 km. What is the total distance travelled by the car?

[A] 9834

[B] 6453

[C] 9837

[D] 5463

23 Which of the following statements is Correct?

[A] Two parallel lines meet at one point

[B] Two perpendicular lines never meet

[C] Two parallel lines are always at equal distance apart

[D] Two perpendicular lines form an acute angle

24 Read the expressions P and Q and choose the correct option

P: $XI + XI = XXII$

Q: $X + X = X$

[A] P is correct

[B] Q is correct

[C] Both P & Q are correct

[D] Both P & Q are incorrect

30 Manju went to a stationary shop. She purchased 4 note books costs ₹ 20 each and 2 pens costs ₹ 16 each. After paying the bill, ₹ 18 is left with her. How much money did she have before paying the bill?

[A] ₹ 128

[B] ₹ 126

[C] ₹ 132

[D] ₹ 130

SECTION B

31 Total number of states in India as on today is

[A] 30

[B] 29

[C] 28

[D] 26

32 Who is popularly known as ‘Netaji’

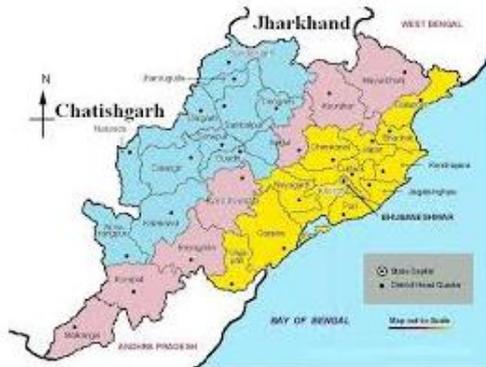
[A] Vallabhbhai Patel

[B] Bal Gangadhar Tilak

[C] Jawaharlal Nehru

[D] Subhash Chandra Bose

33 Identify the state of India



[A] Karnataka

[B] Tamil Nadu

[C] Odisha

[D] Maharashtra

34 Find the odd one out:

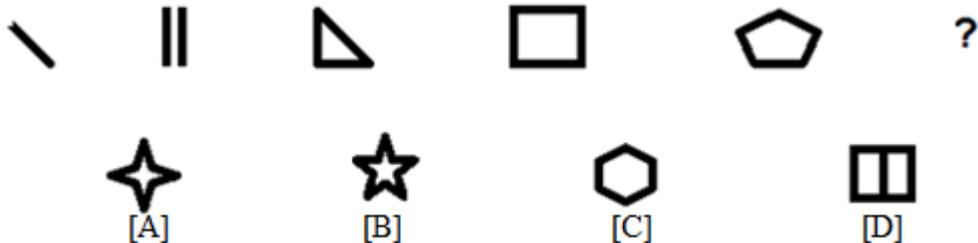
[A] Volcano

[B] Tsunami

[C] Explosion

[D] Earthquake

35 Replace the question mark?



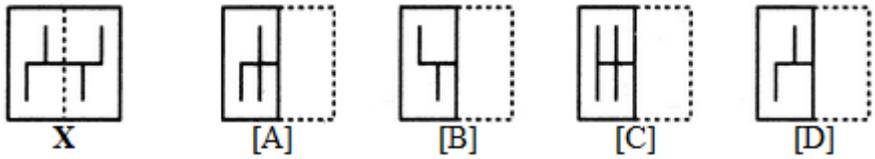
[A]

[B]

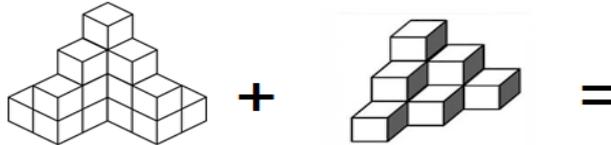
[C]

[D]

36 Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line



37 How many cubes are there in picture?



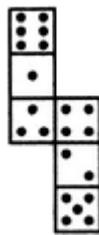
[A] 27

[B] 29

[C] 24

[D] 23

38 How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?



[A] 2

[B] 4

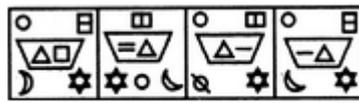
[C] 5

[D] 6

39 Select the alternative in which the specified components of the key figure (X) are found.



X



1

2

3

4

[A] 1

[B] 2

[C] 3

[D] 4

40 Replace the question mark.



[A]



[B]



[C]



[D]

SPACE FOR ROUGH WORK