



## SECTION A

### GENERAL SCIENCE (Question No 1 to 25)

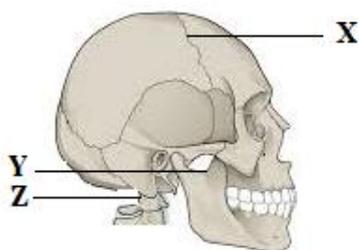
1 The process of taking in and utilizing food for growth and development is known as

- [A] Ingestion [B] Nutrition  
[C] Digestion [D] All of these

2 Starch is a kind of

- [A] Carbohydrate [B] Fat  
[C] Protein [D] Vitamin

3 The following figure shows a human skull. Identify the type of joints at X, Y & Z.



	X	Y	Z
[A]	Fixed	Hinge	Pivot
[B]	Fixed	Hinge	Ball & socket
[C]	Pivot	Pivot	Fixed
[D]	Sliding	Hinge	Fixed

4 Which of the following food substances is rich in protein?

- [A] Rice [B] Groundnut  
[C] Brinjal [D] Orange

5 *Read the following statement of assertion and statement of reason carefully and select correct option.*

**Assertion:** Some abiotic factors like air, water, light and heat are very important for growth of plants.

**Reason:** Some of the above abiotic factors are important for all living organisms.

- [A] Assertion is true and Reason is false  
[B] Assertion is false and Reason is true  
[C] Both Assertion and Reason are true and Reason is the correct explanation of Assertion  
[D] Both Assertion and Reason are true and Reason is not the correct explanation of Assertion

6 Given below are some animals and their locomotory organs. Find the pair that is NOT matched correctly.

- [A] Snakes – Scales [B] Earthworm – Body segments  
[C] Man – Forelimbs [D] Fish – Fins

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7 Carbohydrates can be tested by using

- [A] Iodine [B] Caustic soda  
[C] Copper sulphate [D] Fehling solution
- 

8 Which of the following statements is true?

- [A] Bone has a soft substance called bone marrow inside it  
[B] The only movable bone in skull is the upper jaw bone  
[C] Longest bone in human body is humerus  
[D] Floating ribs are not joined to the breastbone
- 

9 Jute is a natural fibre. Which part of the jute plant is used for making jute?

- [A] Seed [B] Stem  
[C] Fruit [D] All of these
- 

10 *Read the following statement of assertion and statement of reason carefully and select correct option.*

**Assertion:** The process of settling of heavier insoluble particles from a suspension of a substance in water is known as decantation

**Reason:** This process along with sedimentation is used to get clear water from muddy water.

- [A] Assertion is true and Reason is false  
[B] Assertion is false and Reason is true  
[C] Both Assertion and Reason are true and Reason is the correct explanation of Assertion  
[D] Both Assertion and Reason are true and Reason is not the correct explanation of Assertion
- 

11 Which of the following is an example of chemical change?

- [A] Filling up a balloon with hot air  
[B] Freezing a glass of water in a freezer  
[C] A plant collecting sunlight and preparing food  
[D] None of the above
- 

12 Hardness of water is due to the presence of

- [A] Chlorides and sulphates of calcium and potassium  
[B] Bicarbonates, chlorides and sulphates of calcium and magnesium  
[C] Bicarbonates and chlorides of potassium and magnesium  
[D] Bicarbonates, chlorides and sulphates of calcium, potassium and magnesium
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13 Match the list I with the list II and select the correct option.

List I		List II	
I	Multiple lengthwise yarn in a loom	P	Ginning
II	Separation of cotton fibre from its seeds	Q	Warp
III	Compression of raw cotton fibres into bundles	R	Spinning
IV	Making yarn from fibres	S	Bailing

	I	II	III	IV
[A]	P	Q	R	S
[B]	S	R	Q	P
[C]	R	Q	P	S
[D]	Q	P	S	R

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14 Which of the following are true about acid rain?

- (i) Acid rain is very harmful to environment
- (ii) Acid rain can harm aquatic organisms
- (iii) Acid rain help fisherman to catch more fishes
- (iv) Acid rain causes damages to buildings.

- [A] (i) & (ii)                      [B] (i) & (iii)  
[C] (i), (ii) & (iv)                [D] (i), (iii) & (iv)

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15 Which of the following processes enable pure water to be obtained from sea water?

- I. Filtration                                      II. Distillation  
III. Evaporation                                IV. Reverse osmosis
- [A] I & II only                                      [B] I & III only  
[C] II & IV only                                    [D] III & IV only

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16 The magnetic property of a magnet disappears when it is heated strongly. This is a

- [A] Periodic change                              [B] Irreversible change  
[C] Physical change                                [D] Chemical change

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17 The motion of the wheel of a car moving at a constant speed is

- [A] Translatory & rotatory  
[B] Rotatory  
[C] Translatory, rotatory & periodic  
[D] Translatory & oscillatory

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18 **Read the following statement of assertion and statement of reason carefully and select correct option.**

**Assertion:** There is a high atmospheric pressure in the space

**Reason:** Astronauts wear special suits

- [A] Assertion is true and Reason is false
- [B] Assertion is false and Reason is true
- [C] Both Assertion and Reason are true and Reason is the correct explanation of Assertion
- [D] Both Assertion and Reason are true and Reason is not the correct explanation of Assertion

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19 Which part of the electric cell generally acts as positive terminal of the cell?

- [A] Metal disc
- [B] Metal cap
- [C] Either metal cap or metal disc
- [D] Cannot say

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20 Which of the following statements is incorrect?

- [A] The closed path along which electric current flows is called a circuit
- [B] The bulb glows only when current flows through the circuit
- [C] An electric bulb is said to be fused if there is a break in its filament
- [D] Electrical wires are insulated with good conductors of electricity

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21 The process of transferring the charge from a charged object to the earth is called

- [A] Earthing
- [B] Discharging
- [C] Transferring
- [D] Charging

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22 A satellite is orbiting the earth in such a manner that the satellite is always straight above India. It is at a height of 4000 km. Which of the following is true?

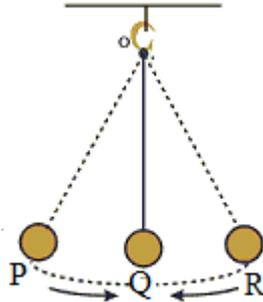
- [A] Its period of rotation is 24 hours
- [B] Its period of revolution is 24 hours
- [C] Its period of rotation is 48 hours
- [D] Its period of revolution is 360 days

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23 Distance travelled by a body is

- [A] The difference in distance between the initial position and final position of the moving body
- [B] The actual length of the path covered by the moving body irrespective of the direction in which the body moves
- [C] The actual length of the path covered by the moving body in a straight line.
- [D] None of the above

- 24 The pressure exerted by a column of liquid is independent of the
- [A] Density of the liquid      [B] weight of the liquid  
 [C] Depth of the liquid      [D] Shape of the container
- 
- 25 Which of these represents one complete oscillation of the pendulum shown below?



- [A] PQRQ  
 [B] PQR  
 [C] QRQPQ  
 [D] PQRQPQ

**MATHEMATICS (Question No 26 to 40)**

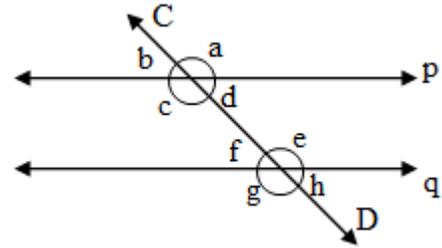
- 26 Number of arcs made by a chord on a circle is
- [A] 1      [B] 2  
 [C] 3      [D] 4
- 
- 27 If  $2x$  is an even number, then the next even number is
- [A]  $2x - 1$       [B]  $2x + 1$   
 [C]  $2x + 2$       [D]  $2x - 2$
- 
- 28 The sum of the factors of 49 is
- [A] 64      [B] 57  
 [C] 50      [D] 14
- 
- 29 Identify the the equation that represents the following statement.
- Six less than the total number of students is 27*
- [A]  $x + 27 = 6$       [B]  $6 - x = 27$   
 [C]  $27 - 6 = x$       [D]  $x - 6 = 27$
- 
- 30 A triangle has a perimeter of 50.002 cm. If its two sides are 16.038 cm and 15.32 cm, then its third side is
- [A] 18.644 cm      [B] 18.446 cm  
 [C] 16.844 cm      [D] 19.644 cm
- 
- 31 The expanded form of 3.02 is
- [A]  $(3 \times 1) + (2 + \frac{1}{10})$       [B]  $(3 \times 1) + (2 \times \frac{1}{10})$   
 [C]  $(3 \times 1) + (2 \times \frac{1}{100})$       [D]  $(3 \times 10) + (2 \times \frac{1}{10})$

32 The HCF and LCM of two numbers are 11 and 7700 respectively. If one of the numbers is 275, then the other number is

- [A] 283 [B] 318  
[C] 308 [D] 279

33 In the following figure, if  $p \parallel q$  and  $CD$  is a transversal, then which of the following is true?

- [A]  $\angle a + \angle c = 180^\circ$   
[B]  $\angle d = \angle e$   
[C]  $\angle d + \angle e = 180^\circ$   
[D]  $\angle e = \angle h$



34 A room is 12.5 m long and 8 m wide. A square carpet of side 8 m is laid on its floor. Find the area of the floor which is not carpeted?

- [A]  $64 \text{ m}^2$  [B]  $36 \text{ m}^2$   
[C]  $100 \text{ m}^2$  [D]  $42 \text{ m}^2$

35 Hindu-Arabic numeral for **MCDXVIII**

- [A] 1618 [B] 1405  
[C] 1418 [D] 1481

36 The sum of money that will produce ₹ 3540 as simple interest in 15 years at 8% per annum

- [A] ₹ 2950 [B] ₹ 3120  
[C] ₹ 2800 [D] ₹ 3200

37 An angle which is equal to  $360^\circ$  is called

- [A] Right angle [B] Acute angle  
[C] Linear pair [D] Complete angle

38 A grasshopper can jump up to 91.4 centimetres in a single jump. If the grasshopper jumped 7.312 metres altogether, how many jumps did it make?

- [A] 17 jumps [B] 8 jumps  
[C] 9 jumps [D] 12 jumps

39 If 20 men take 30 days to complete a job working 12 hours a day. How many hours a day should 10 men work to complete the job in 20 days?

- [A] 20 [B] 24  
[C] 25 [D] 27

40 Minute hand and hour hand clock make an acute angle at

- [A] 3 O' clock [B] 5 O' clock  
[C] 6 O' clock [D] 11 O' clock

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## SECTION B

41 What is the name of lunar rover which was sent with Chandrayaan 2?

- [A] Vikram [B] Kalam  
[C] Jatayu [D] Pragyan

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42 The number of players in each side in Water Polo is

- [A] 6 [B] 7  
[C] 8 [D] 9

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43 Equinox means

- [A] Days are larger than nights  
[B] Days and nights are equal  
[C] Days are shorter than nights  
[D] None of these

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44 World 'Environment Day' is celebrated every year on:

- [A] January 15 [B] July 10  
[C] June 5 [D] April 7

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45 Kaziranga National Park situated in which one of the following state?

- [A] Kerala [B] Karnataka  
[C] Assam [D] Madhya Pradesh

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46 Lord Buddha delivered his first sermon at:

- [A] Bodh Gaya  
[B] Sanchi  
[C] Sarnath  
[D] Kushnagar



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47 *Jupiter takes nearly 12 years to complete one orbit around sun.* What would be the age of a 48 years old man if he lives in Jupiter?

- [A] 3 Years [B] 4 Years  
[C] 60 Years [D] 24 Years

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48 The Vijayanagar Empire was founded by:

- [A] Krishna Devaraya [B] Harhara and Bukka  
[C] Balaji Wiswanath [D] Chandra Gupta Maurya

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49 Which one of the following land form is not related to the formation of flowing water?

- [A] Delta [B] Plateau  
[C] Sand bar [D] Ox bow

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50 The term ATM stands for:

- [A] Alternate To Money
- [B] Automatic Transaction Money
- [C] Automatic Teller Machine
- [D] Alternative Transaction Money

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51 World Aids Day is observed on

- [A] December 10
- [B] December 1
- [C] March 8
- [D] June 5

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52 Arrange the words in alphabetical order and pick the one that comes second.

- [A] Explosion
- [B] Emergency
- [C] Eager
- [D] Ecstasy

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53 In a class of some students standing in a straight line, the position of David is 31st from left end and 21st from right end. How many students are there in the class ?

- [A] 52
- [B] 55
- [C] 50
- [D] 51

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54 In the following question find out the alternative which will replace the question mark.

**Butterfly : caterpillar :: Mole : ?**

- [A] Cygnet
- [B] Hatchling, chick
- [C] Calf
- [D] Pup

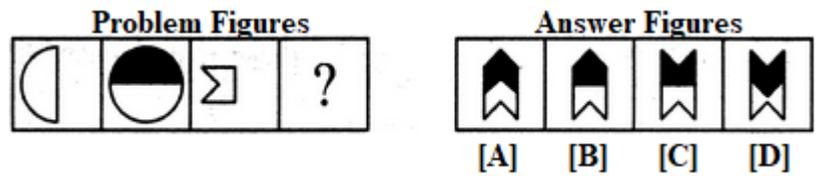
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55 Choose the odd pair

- [A] Graphite - Pencil lead
- [B] Lampblack – Tyre
- [C] Diamond – Glass-cutter
- [D] Coke – Shoe polish

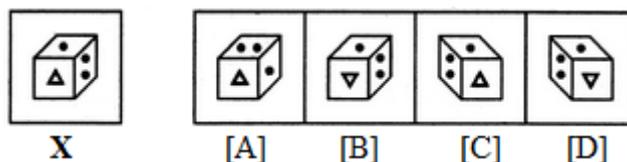
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56 Select a suitable figure from the Answer Figures that would replace the question mark (?).



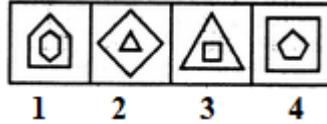
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57 Choose the correct mirror image of the given figure (X) from amongst the four alternatives.



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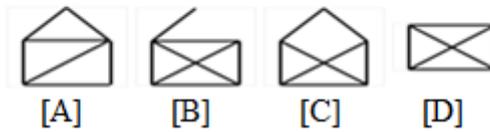
58 Choose the figure which is different from the rest..



- [A] 1 [B] 2  
[C] 3 [D] 4

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59 Replace the question mark



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60 Look at this series: 21, 9, 21, 11, 21, 13, 21, ... What number should come next?

- [A] 14 [B] 15  
[C] 21 [D] 23

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61 In a code language QUEEN is written as OVCFL, then KING is written as

- [A] IJLH [B] MKOF  
[C] PHIK [D] FOKM

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62 In a code language 35796 is written as 44887. Find the code of 46823.

- [A] 55914 [B] 57194  
[C] 55934 [D] 55745

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63 MAN: 13114: : WOMEN: ?

- [A] 231413514 [B] 13111415  
[C] 13152124 [D] 231513514

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64 When Anuj saw Manish, he recalled, "He is the son of the father of my daughter." Who is Manish?

- [A] Brother-in-law [B] Brother  
[C] Cousin [D] Uncle

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65 Today is Thursday. What will be the day after 21 days?

- [A] Thursday [B] Monday  
[C] Wednesday [D] Friday

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66 gif, jpg, bmp, png are used as an extension for files which store

- [A] Audio data [B] Image data  
[C] Video data [D] Text data
- 

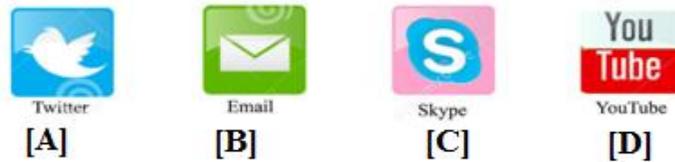
67 Why is the Caps Lock key referred to as a toggle key?

- [A] Because its function goes back and forth every time it is pressed  
[B] Because it cannot be used for entering numbers  
[C] Because it cannot be used to delete  
[D] Because it cannot be used to insert
- 

68 The word "Computer" usually refers to the Central Processing Unit plus:

- [A] Input Devices [B] External Memory  
[C] Internal Memory [D] Output Device
- 

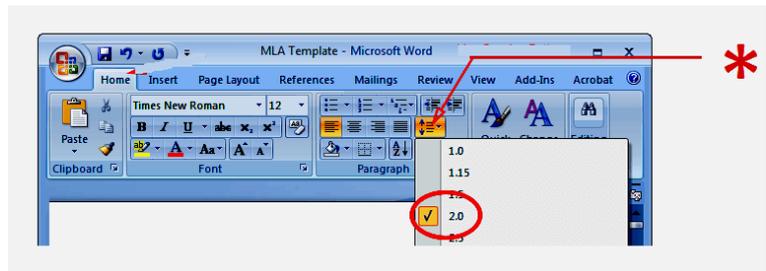
69 Which one of the following is not a social media?



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70 The marked button used for?

- [A] Line spacing  
[B] Increasing font size  
[C] Adjusting margin  
[D] None of these



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***SPACE FOR ROUGH ORK***