

Class- VII

Subject: General Science

Date: 8.3.2017

Time- 2 ½ Hrs

Max. Marks-90

Instructions

1. The question paper consists of five sections.

Section A contains 10 questions of 1 mark each.

Section B contains 11 questions of 2 marks each.

Section C contains 11 questions of 3 marks each.

Section A contains 5 questions of 4 marks each.

Section E contains 1 question (value based) of 5 marks.

2. Answer should be to the point.

3. Use of any electronic gadget (e.g. calculator, mobile phone etc.) is not permitted.

Section - A

Q I Answer the following 10 questions. Choose the correct option from the given choices.

(1 x 10=10 marks)

1. Which substance is responsible for carrying Oxygen in blood?

- a) Salt b) Water c) Haemoglobin d) Plasma

2. The fusion of male and female gamete is called –

- a) Pollination b) Reproduction c) Seed formation d) Fertilization

3. The chemical used to disinfect water is –

- a) Insecticide b) Paint c) Fertilizer d) Chlorine

4. *Bryophyllum* can reproduce by its –

- a) Stem b) Leaves c) Roots d) Flowers

5. A _____ image cannot be obtained on a screen.

- a) real b) virtual c) erect d) inverted

6. The blood appears red because of _____ present in it.

- a) WBC b) Haemoglobin c) Platelets d) Plasma

7. _____ is celebrated as “World Water Day”.

- a) 21 June b) 14 November c) 22 March d) 22 May

8. The basic unit of time is

- a) Hour b) Second c) Minute d) All the above

9. The rear view mirror in vehicles is basically a ---- mirror

- a) Convex b) Plane c) Concave d) None of the above

10. ----- motion of pendulum has been used to make clocks

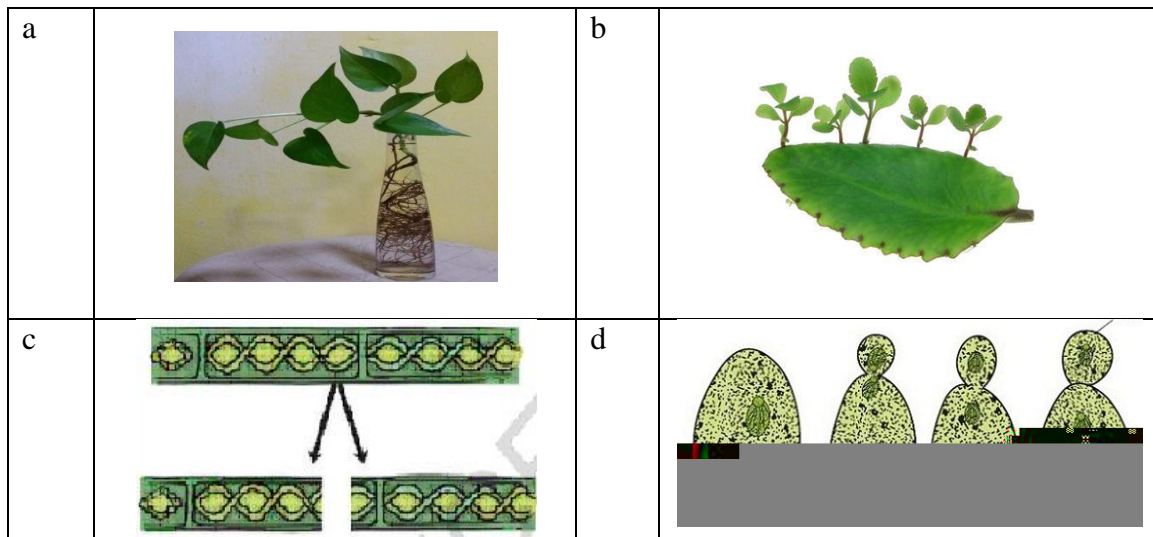
- a) Circular b) Rectilinear c) Periodic d) Random

Section-B

Q II Answer the following 11 questions in 2 or 3 sentences.

(2 x11=22 marks)

1. What is Humus? How is it useful to the plants?
2. Differentiate between a real and a virtual image.
3. What are spiracles and tracheae?
4. A simple pendulum takes 36 sec to complete 20 oscillations. What is the time period of this pendulum?
5. From the pictures given below, identify the type of reproduction in the plants:



6. Oils and fats should not be released into the drain. Explain why?
7. What are the decomposers?
8. Name two chemicals used to disinfect water.
9. What is pulse rate?
10. Which soil is best suited for cultivation of cotton? Give reasons.
11. Write two uses of concave mirror.

Section-C

Q III Answer the following 11 questions in 4 or 5 sentences.

(3 x 11=33 marks)

1. Explain the factors responsible for the depletion of water table.
2. Mention three advantages of seed dispersal.
3. Write three important functions of blood.
4. Write any three characteristic features of image formed by a plane mirror.
5. What is sludge? How is it formed? Explain what is it used for?
6. Draw a well labeled diagram of the human excretory system.
7. List three differences between arteries and veins.
8. Distinguish between aerobic and anaerobic respiration.

9. Which lens is known as converging lens and why?
10. Sketch and label the reproductive parts of flower.
11. List three differences between clayey and loamy soil.

Section-D

IV Answer the following 5 questions in detail.

(4 x 5 =20 marks)

1. (a) "Polythene bags and plastics pollute the soil." Explain the statement.
(b) Name two other substances that pollute the soil. Write two ways in which this problem can be solved.
2. What is water conservation? Write three methods to conserve water.
3. The distance travelled by a car at various time intervals are shown below.

Distance(KM)	0	2	4	6	8	10
Time(min)	0	1	2	3	4	5

- (a) Draw a distance-time graph for the car.
 - (b) What conclusion do you get from this graph about the nature of motion of the car?
4. What is transpiration? Name the tiny pores associated with this process.
How is it useful for the plants?
 5. Draw a neat labelled diagram of soil profile.

Section-E (Value based)

QV [Following question carries five marks.]

(1x5=5 marks)

1. Radha's grandfather told her that when he was young their village was not as large as it was now. It was also surrounded by forests. Construction of roads, buildings, industrial development and increasing demand of wood created pressure on the forests and it started vanishing. He was not happy that the forest adjoining their village was not regenerating due to overgrazing of animals and indiscriminate felling of trees.

Radha prepared a few pictures to show the consequences of deforestation and distributed them among the villagers and her friends.

- (a) What can be the possible reasons of deforestation? (2)
- (b) Mention two consequences of deforestation. (2)
- (c) Which values are present in Radha? (1)
