

**KENDRIYA VIDYALAYA SANGATHAN**

**SESSION ENDING EXAM TERM –II 2022-23**

**SAMPLE PAPER I**

**SUBJECT-SCIENCE**

**CLASS-VII**

TIME- 2.5HRS

MM:-60

**General Instructions:**

- i. This question paper consists of 26 questions in 4 sections.*
- ii. All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.*
- iii. Section A consists of 12 Very Short questions carrying 1 mark each.*
- iv. Section B consists of 6 Short questions carrying 02 marks each. Answers to these questions should in the range of 30 to 50 words.*
- v. Section C consists of 4 Long Answer type questions carrying 05 marks each. Answers to these questions should in the range of 80 to 100 words*
- vi. Section D consists of 4 Competency based questions carrying 04 marks each with sub-parts.*

**SECTION A**

- Q1- Which of the following is an acid base indicator? 1  
(A) Baking soda (B) Vinegar (C) Lime water (D) Turmeric
- Q2- Blue Litmus Paper is dipped in a solution and it remains blue. What is the nature of the solution? 1  
(A) Acidic (B) Basic (C) Neutral (D) Both basic and neutral
- Q3- Name the organ in which the urine is stored before it passed out from the body. 1  
(A) Kidney (B) Ureter (C) Urinary bladder (D) Urethra
- Q4- In plants water is transported through these tissues: - 1  
(A) Xylem (B) Phloem (C) Stomata (D) Root hairs
- Q5- Bryophyllum can reproduce by its:- 1

(A) Stem (B) Leaves (C) Roots (D) Flower

Q6- Motion of the hammer of an electric bell is a type of \_\_\_\_\_ motion . 1

(A) Oscillatory (B) Circular (C) Straight line (D) All of these.

Q7- The combination of two or more cells is called :- 1

(A) Generator (B) Collective cells (C) Battery (D) none of these.

Q8- Full form of MCB is :- 1

(A) Multiple circuit breaker (B) Multiple current breaker

(C) Miniature current breaker (D) Miniature circuit breaker

Q-9- Plane mirrors forms \_\_\_\_\_ and \_\_\_\_\_ images. 1

(A) Real ,inverted (B) Virtual,erect (C) Virtual,inverted (D) Real,erect

Q-10- The insects, butterflies, honey bees and birds help flowering plants in- 1

(A) Asexual reproduction (B) Pollination (C) Vegetative propagation (D) None of these

Q11- Wastewater releases out from houses is called :- 1

(A) Excreta (B) Sewage (C) Urine (D) All of these

Q12- A Chemical used to disinfect water :- 1

(A) Chlorine (B) Oxygen (C) Sodium (D) None of these.

### **Section B**

Q13- Describe any two methods of asexual reproduction with examples. 2

**OR**

Write four differences between sexual and asexual reproduction

Q 14-The distance between two stations is 280 km a train takes 7 hours to cover this distance. Calculate the speed of the train. Draw the distance time graph showing a body at rest. 2

Q15-Two students made an electric circuit using cell ,switch ,wires and bulb ,When they put the switch in on position the bulb did not glow .What are the probable reasons for the same (Write any four). 2

**OR**

Draw the symbols of components of cells and Write their names.

Q16-Write four differences between convex lens and concave lens . 2

Q17-What are Decomposers? Name any 2 of them, 2

Q18-Untreated human excreta is a health hazard .Explain 2

### **SECTION C**

Q19- a. Draw the reproductive parts of a flower . 3+2

b. Write 2 Differences between Self-pollination and Cross pollination.

Q20- a) Define Virtual image and Real image . 2+1+2

b) What do you understand by the term lateral inversion?

c) Write two uses each of concave mirror and convex mirror.

Q.21-a) List 4 Products we get from forest. 2+3

b) Explain the role of forest in maintaining the balance between Oxygen and Carbon dioxide .

Q.22-a)Name the components of blood and their functions. 3+2

b)Write the function of heart.

### **OR**

a) Why is it necessary to excrete waste products? 2+3

b) Draw the diagram of human excretory system and label its parts.

### **SECTION D**

**Q. No.** 23 to 26 are Competency –based questions with 2 to 3 short sub part.

Q23 :-*When an ant bites it injects an acidic liquid into the skin that acidic liquid is formic acid, which leads to inflammation of the skin. The effect of the sting can be neutralized by rubbing Calamine solution.* 1+1+1+1=4

1.What is the type of reaction between acidic liquid of ant bite and calamine lotion?

2.Name the products formed when acid and bases reacts with each other.

3.Substances which are neither acidic nor basic are known as \_\_\_\_\_.

4.Litmus solution is used to check the nature of the solution .Name the source from which Litmus solution is obtained.

Q24:-Plants absorb mineral nutrients and water from the soil. All the water absorbed is not utilized by the plant. The water evaporates through the stomata present on the surface of the leaves by the process of transpiration. The evaporation of water from leaves generates a suction pull which can pull water to great heights in the tall trees. Transpiration also provides cooling to the plant.

2+1+1=4

1. Write two functions of stomata.

2. The specialized tissues in the plants to translocate food.

a) Xylem                      b) Phloem                      c) Stem                      d) Leaves

3. In tall trees, which force is responsible for pulling water and minerals from the soil?

a) Gravitational force      b) Transportation force      c) Suction force      d) Conduction force

Q25-The heating effect of electric current is widely used in our day-to-day life. The electric iron, kettle, toaster, heater, etc. are used as alternatives to the conventional methods of cooking and laundry. The same is used in electric bulbs which is the alternative of conventional lamps. These devices have revolutionized the world over the years.

1+1+1+1=4

1. Define heating effect of electric current

2. Which of the following device is based on the heating effect of electric current?

a) Electric bell      b) Geyser                      c) Electric crane                      d) All of these

3. Name the safety device based on the heating effect of electric current.

4. Which of the following precautions need to be taken while using electric gadgets, appliances or circuit? Tick the correct option.

a) We should never touch a lighted electric bulb connected to the mains.

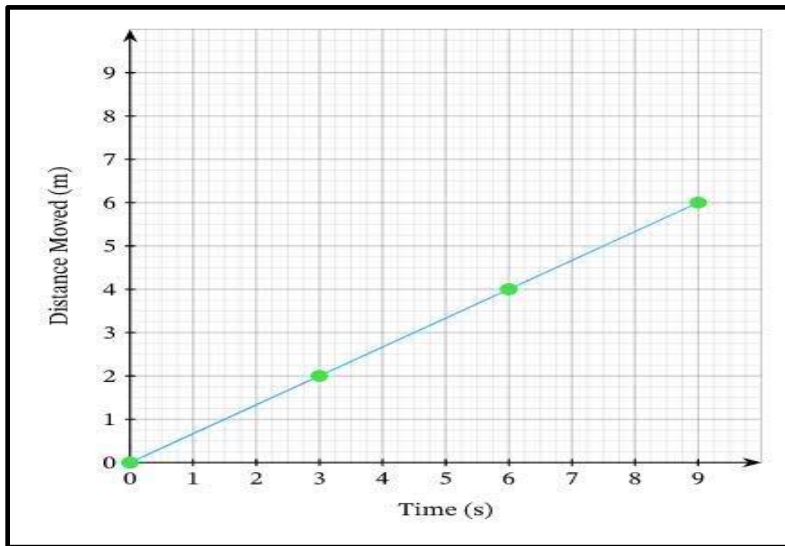
b) We should experiment with the Electric Supply from the mains.

c) We should always turn the switch in on position of an electric gadget even when not in use.

d) We should work with wet hands while dealing with electric appliances.

Q26- Observe the given graph and answer the following questions:-

1+1+1+1=4



- Which type of motion is presented by the graph?
- What is the distance covered by the object at 9 seconds ?
- What is the distance covered by the body in first three seconds ?
- What is the speed of the object in meter per second?

\*\*\*\*\*End of Paper\*\*\*\*\*