



विद्या सर्वार्थ साधिका

ANANDALAYA
PERIODIC TEST – 3
Class : VII

Subject: Science

Date: 06/01/2020

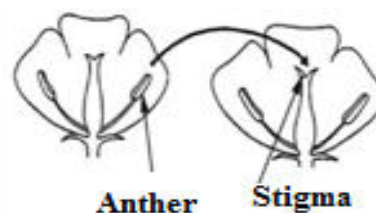
M.M : 50
Time : 2 Hours

General Instructions:

1. All questions are compulsory. There are 23 questions in all.
2. Question numbers 1 to 11 are objective type questions and carry 1 mark each.
3. Question numbers 12 to 14 are short answer questions and carry 2 marks each.
4. Question numbers 15 to 20 are also short answer questions and carry 3 marks each.
5. Question numbers 21 to 23 are long answer questions and carry 5 marks each.

1. Switch in a closed circuit allows ____ flow of current in the circuit. (1)
(a) discontinuous (b) continuous
(c) intermediate (d) irregular
2. A combination of two or more cells is called a _____. (1)
(a) battery (b) key
(c) motor (d) plug
3. The dilute solutions of which of the following are not harmful to drink? (1)
I. Magnesium hydroxide II. Potassium hydroxide
III. Sodium hydrogen carbonate IV. Sodium carbonate
(a) I and II (b) II and III
(c) I and III (d) II and IV
4. Aquatic animals like fish excrete their wastes in gaseous form as _____. (1)
(a) oxygen (b) hydrogen
(c) ammonia (d) nitrogen
5. Lila observed that a pond with clear water was covered up with green algae within a week. By which method of reproduction did the algae spread so rapidly? (1)
(a) Budding (b) Fragmentation
(c) Binary Fission (d) Spore formation
6. The heat produced in a conductor by an electric current depends on the material of wire. State True/False (1)
7. The seeds of Xanthium and Aak are dispersed by animals. State True/False (1)
8. Silk production involves cultivation of mulberry leaves and rearing _____. (1)
OR
Different types of silkworms produce _____ types of silk.
9. A coil of many circular turns of wire wound in the shape of cylinder is called _____. (1)

10. A student adds dilute sulphuric acid to lime water. Will the reaction mixture become hot or cold? Why? (1)
11. In human, veins have valves which allow blood to flow only in one direction. Arteries do not have valves yet the blood flows in one direction only. Why? (1)
12. (a) Why is tungsten preferred as a filament in an electric bulb? (2)
 (b) In the adjacent circuit, which bulb will glow first after closing the switch?
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13. Why do silk and wool fabrics give out a smell like that of burning hair on burning? Do you think jute fabric also smells the same when burnt? Why or why not? (2)
14. Harvi's uncle was hospitalised due to severe infection in both of his kidneys and doctor recommended that dialysis to be done immediately. (2)
 (a) What is dialysis?
 (b) Why did doctor recommend dialysis to his uncle?
15. (a) Ram and Raj made two electromagnets. Ram wound 50 turns of a wire over an iron screw and Raj wound 100 turns over a similar iron screw. Which one will attract more pins? Give reason. (3)
 (b) How is an electromagnet different from a bar magnet?
 (c) Write any two uses of an electromagnet.
16. (a) What is overloading in domestic circuits? (3)
 (b) How does a safety fuse protect domestic appliances from accidental current?
 (c) Write any one difference between fuse wire and heating coil.
17. (a) Kavita wanted to buy a gift made of animal fibre obtained without harming the animal, for her mother. But she was unable to choose from the following fabric: Woollen shawl or Silk scarf. Which one should she buy? Why? (3)
 (b) Animal activists are against the silk production. Why?
18. Give reason for the following: (3)
 (a) Ravi found that the turmeric stain on his shirt turned red when his mother washed it with soap, but he was unable to understand the cause of this change.
 (b) Rama preferred a glass container for storing cut pieces of lemon.
 (c) A farmer found a sharp decrease of crop due to sprinkling of excessive fertilizers. Another farmer, his friend suggested to add quicklime to the soil to regain high yield of crop.
19. (a) Identify and describe the type of pollination depicted from the figure given. (3)
 (b) Name and draw the diagram to show the type of pollination that may occur in bisexual flowers of a plant.



20. Riju noticed water being pulled up by a motor-pump to an overhead tank of a five-storeyed building. (3)
He wondered how water moves up to great heights in the tall trees standing next to the building.
Help him understand by answering the questions given below.
- (a) Name the tissues that transport water to greater heights in plants?
 - (b) List any two processes that help trees to transport water and mineral nutrients.
 - (c) How does synthesised food reach from leaf to all plant parts?
21. Explain the parts and function of an electric bell with a neat labelled diagram. (5)
22. (a) Look at the reactions given below. Decide if the product will be acidic, basic or neutral. (5)
(i) Strong acid + strong base (ii) Weak acid + strong base (iii) Strong acid + weak base
- (b) Mention two uses of each:
(i) Ammonium hydroxide (ii) Acetic acid
23. (a) Which type of reproduction is advantageous to an organism, sexual or asexual? (5)
(b) Classify the plants of Onion plant, Fern, Yeast, Rose and Bread mould based on the specific type of asexual reproduction.
(c) Draw the diagram of stamen and pistil of a flower and label the parts.

OR

The figure of the internal structure of human heart is given.

- (a) Identify the parts labelled as A, B, C and D.
- (b) Name the blood vessels that carries oxygenated to and from the heart.
- (c) Why is blood circulation in human heart referred as double circulation?

