



विद्या सर्वार्थ साधिका

ANANDALAYA
PERIODIC TEST – 1
Class : VIII

Subject: Science

Date: 16/07/2019

M.M : 50
Time : 2 Hours

General Instructions:

1. Question paper will consist of two sections A and B.
2. Section B consists of Multiple Choice Questions.
3. You have to attempt both the sections separately.

SECTION A

1. How does the roughness of a surface cause friction? (1)
2. What property of metal enables them to be used for making electrical wires. (1)
3. What is the advantage of using drip irrigation? (1)
4. A cricket match was going on. The umpire signalled the start of the match and passed the ball to the bowler. He rubbed the ball on his legs and then bowled to the batsman. The batsman hit the ball and the fielder near the boundary stopped the ball with his foot. He picked up the ball and threw it back to the bowler. (2)
 - (a) Who were the agents applying the force?
 - (b) What changes were experienced by the ball?
5. Define the following terms: (a) Carbonisation (b) Petroleum Refining (2)
6. Anil cultivated sugar cane in his crop field continuously for five years. He realised that the yield from the crop field has reduced lately. (2)
 - (a) What advice could be given to him to increase the yield?
 - (b) What are the two precautions that he would take before the cultivation in the next season?
7. With the help of an activity prove that (3)
 - (a) Liquids exert lateral pressure.
 - (b) Liquid pressure does not depend on the shape of the container.
8. Explain why: (3)
 - (a) People face discomfort at higher altitudes.
 - (b) Deep sea divers wear specially designed suits.
 - (c) It is easier to cut vegetables with sharp knives.
9. Give reason for the following: (3)
 - (a) Aluminium foils are used to wrap food items.
 - (b) Copper can not displace zinc from its salt solution.
 - (c) Sodium and potassium are stored in kerosene.
10. Explain what happens when an iron nail is placed in solution of copper sulphate taken in a beaker. Write the chemical equation for the change taking place in the beaker. Also name the type of reaction involved in the change. (3)
11. In Gujarat, Kutch is a place where rain is scanty and hence people face water shortage. What kind of irrigation method is good for the field? Explain and write one advantage of the same. (3)

12. Anil cultivated sugarcane in his crop field continuously for five years. He realised that the yield from the crop has reduced lately. (3)
 (a) What is your advice for him to increase the yield?
 (b) Which two precautions would he take before the cultivation in the next season?
13. (a) The force of friction produces wear and tear in machines. Why do you think this happens? How can it be minimised? (5)
 (b) Is there a force of friction between the wheels of a moving train and iron rails? If yes, name the type of friction. If an air cushion can be introduced between the wheel and the rail, what effect will it have on the friction?
 (c) Why is aeroplane, ships and boats having streamlined body?
14. (a) Differentiate between exhaustible and inexhaustible natural resources. Give two example of each. (5)
 (b) Explain the process of formation of petroleum.
15. Write short notes on (5)
 (a) Any two machines used in modern agriculture.
 (b) Any two types of irrigation methods.
 (c) Weedicide used in agriculture.

SECTION B

16. A gas filled balloon moves up. The upward force acting on the balloon is (1)
 (a) smaller than the force of gravity. (b) larger than the force of gravity.
 (c) equal to the force of gravity. (d) zero.
17. Which of the following is a non-contact force? (1)
 (a) Force exerted by an engine on its compartments.
 (b) Force exerted by a footballer on a ball.
 (c) Force exerted by road on the tyres of a moving vehicle.
 (d) Force exerted by a charged comb on the bits of paper.
18. Two objects repel each other. This repulsion could be due to (1)
 (a) frictional force only. (b) electrostatic force only.
 (c) magnetic force only. (d) either a magnetic or an electrostatic force.
19. The products formed when zinc reacts with sulphuric acid are (1)
 (a) Zinc chloride and hydrogen (b) Zinc sulphate and hydrogen
 (c) Zinc sulphate and water (d) Zinc nitrate and hydrogen
20. Rita took a piece of burning charcoal and collected the gas evolved in a test tube. The gas evolved in the beaker is: (1)
 (a) Nitrogen dioxide (b) Oxygen (c) Hydrogen (d) Carbon dioxide
21. While storing grains in granaries, (1)
 (a) Seeds should be immediately transferred to the granaries
 (b) Seeds need to be weighed before storing
 (c) Seeds should be cleaned and dried before storing
 (d) Seeds should be treated with pesticide
22. Rearing of cattle scientifically for maximum milk production is called (1)
 (a) Silver revolution (b) White revolution (c) Green revolution (d) Blue revolution
23. Weeds are removed from the crop field ideally, (1)
 (a) When they germinate (b) When they flower
 (c) Before they bear flowers and seeds (d) During ploughing