



ANANDALAYA  
SUMMATIVE ASSESSMENT - 1

Class : VIII

Subject: SCIENCE  
Date 19/09/2016

M.M: 50  
Time: 2 Hours

**SECTION A**

1. An object is vibrating at 50 hertz. What is its time period? (1)
2. A purple coloured non-metal forms a brown solution in alcohol which is applied on wounds as an antiseptic. Name the nonmetal. (1)
3. When Anand visited an Agricultural exhibition, he observed that a fertilizer stall was selling microbial culture Pseudomonas in packets. His younger brother was curious to know how it is useful to the farmers. What possible explanation could he give to his brother? (1)
4. Two blocks of iron of different masses are kept on a cemented floor as shown in figure. Which one of them would require a larger force to move it from the rest position? Why? (2)
  
5. What happens when (2)
  - a) dilute sulphuric acid is poured on a copper plate?
  - b) iron nails are placed in copper sulphate solution?Write word equations of the reactions involved.
6. When Rukia went out for a walk with her Grandpa during the rains, they stopped near a pond to have a closer look. Seeing a small, floating jelly-like mass, she wanted to collect it and observe it, to which her Grandpa said 'no'. What could be this mass? What harm will occur if it is taken out of water? (2)
7. Following are some clues to reach certain cell organelles. After reading their names, mark them on the diagram of the cell drawn. (2)
  - a) The additional layer that protects the cell.
  - b) Blank looking structures that store water.
  - c) Coloured bodies in the cytoplasm.
  - d) The structure that helps in inheritance of characters from parents to off-springs.
8. a) Loudness of the sound more than 80 decibel is not advisable for human to hear. (3)  
Comment on this statement.  
b) List out any four measures to reduce noise pollution.
9. What is fluid friction? Write the factors on which fluid friction depends. (3)
10. You are asked to avoid using plastics for a week. Write two advantages and two disadvantages in your daily life style. What values do you think you will learn? (3)
11. Write the importance of synthetic polymers in our life. (3)

12. Define: 'Asexual Reproduction'. Explain the stages of asexual reproduction in Amoeba using diagrams. (3)
13. "Structure and shape of the cells are related to their location and function". Elaborate the statement giving examples. (3)
14. Name the forces acting on a plastic bucket containing water held above ground level in your hand. Discuss why the forces acting on the bucket do not bring a change in its state of motion. (3)
15. Give reasons for the following: (5)
- a) Aluminium foils are used to wrap food items.
  - b) Immersion rods for heating liquids are made up of metallic substances.
  - c) Copper cannot displace zinc from its salt solution.
  - d) Sodium and potassium are stored in kerosene.
  - e) Bells are made of metals.
16. Suggest any four methods of food preservation by giving one example for each type. Draw the schematic representation of nitrogen cycle in nature. (5)

### SECTION B

17. Four different whistles when blown emit pure notes with the frequencies 0.1kHz, 1kHz, 10kHz and 100kHz. (1)  
How many of the frequencies are above the normal audible range for human?  
(a) 1 (b) 2 (c) 3 (d) 4
18. Figure shows a container filled with water. Which of the following statements is correct about pressure of water? (1)
- (a) Pressure at A > Pressure at B > Pressure at C
  - (b) Pressure at A = Pressure at B = Pressure at C
  - (c) Pressure at A < Pressure at B > Pressure at C
  - (d) Pressure at A < Pressure at B < Pressure at C
19. Metals generally react with dilute acids to produce hydrogen gas. Which one of the following metals does not react with dilute hydrochloric acid? (1)  
(a) magnesium (b) iron (c) aluminium (d) copper
20. Which is a thermosetting plastic? (1)  
(a) Melamine (c) PVC (b) Polythene (d) Nylon
21. How do you prepare any one suitable material to study animal cell in the lab? (2)
22. How do you check the electrical conductivity of a given liquid? Explain with the help of an activity. (2)