

## Assessment – Semester I : 2018 – '19

Time : 3 Hours Science and Tech. : Std. 7 (Morning Shift) Total Marks : 80

Student's Name : \_\_\_\_\_

Division : \_\_\_\_\_ Roll No : \_\_\_\_\_ Supervisor's sign : \_\_\_\_\_

M 3108

### 1. (A) Write the correct alternative from those given below each question : 12

- (1) Which instrument is used to know the direction?  
(A) Microscope (B) Electron Microscope  
(C) Magnetic compass (D) Telescope
- (2) From which food is carbohydrate obtained in large amount?  
(A) Dal (B) Rice (C) Vegetables (D) Fruits
- (3) Which mineral element is essential for the constitution of haemoglobin?  
(A) Calcium (B) Iodine (C) Phosphorus (D) Iron
- (4) Which of the following is a food-storing root?  
(A) Potato (B) Sweet potato (C) Cabbage (D) Onion
- (5) Which is not required in the process of photosynthesis?  
(A) Carbon dioxide (B) Oxygen (C) Chloroplast (D) Sunlight
- (6) What is water?  
(A) Element (B) Compound (C) Mixture (D) None of these
- (7) Which gas is passed in water to make water germ-free in big cities?  
(A) Hydrogen (B) Oxygen (C) Carbon dioxide (D) Chlorine
- (8) Maximum erosion occurs in which soil?  
(A) With steps (B) With horizontal furrow  
(C) With one side slope (D) With grass covered
- (9) Which cell organelle plays a significant role in protein synthesis?  
(A) Lysosome (B) Ribosome (C) Mitochondrion (D) Chloroplast
- (10) Which type of motion is the motion of a swinging cradle?  
(A) Random motion (B) Linear motion  
(C) Circular motion (D) Oscillatory motion
- (11) Which component of food is partially digested in stomach?  
(A) Carbohydrates (B) Lipids (C) Proteins (D) Mineral salt
- (12) Which of the following is a petroleum product?  
(A) Coal gas (B) Kerosene (C) Biogas (D) Biodiesel

### (B) Define : (any four)

4

- (1) Magnetic field (2) Photosynthesis (3) Solution (4) Tissue (5) Speed

### 2. (A) Answer the following questions in one sentence :

10

- (1) In which part of a magnet is strong magnetic field found?
- (2) Which deficiency disease occurs due to deficiency of Vitamin C?

- (3) What are absorbed from the soil through the roots of plant?
- (4) Which instrument is used for electrolysis of water?
- (5) Where is earthen pot irrigation method mainly used?
- (6) Name the scientist who first gave the information about the cell.
- (7) Which type of motion does a girl sitting in a merry-go-round perform?
- (8) Which component of food does ptyalin enzyme in saliva digest?
- (9) Which is the main and important organ of respiratory system?
- (10) Where should the windmills be erected?

**(B) Give two points of difference : (any three) 6**

- (1) Natural magnet and Artificial magnet
- (2) Drip-irrigation method and *Dhorla*-irrigation method
- (3) Onion cell and Cheek cell
- (4) Artery and Vein

**3. (A) Describe the following experiments with diagrams : (any two) 10**

- (1) To prepare an electromagnet by taking an iron nail.
- (2) To prove that the roots of plants absorb water and dissolved mineral salts from the soil.
- (3) To determine the volume of components of water by electrolysis.

**(B) Explain giving scientific reasons : (any three) 6**

- (1) Small children should be given protein-rich diet.
- (2) Milk is considered a complete diet.
- (3) One feels cool under the dense tree during midday.
- (4) The moving vehicles stop on applying the brakes.

**4. (A) Answer the following questions in detail : (any two) 8**

- (1) Write a short note on : Drip-irrigation method
- (2) Explain various types of forces giving examples.
- (3) Draw a diagram of lungs, explain its structure and function.

**(B) Answer the following questions in short : (any four) 8**

- (1) How is the magnetism of magnet destroyed?
- (2) State the sources of fats.
- (3) State the sources of Vitamin C and write its importance.
- (4) Write normal functions of leaf.
- (5) Water available in nature is never pure, why?

**5. (A) Answer the following questions in short : (any four) 8**

- (1) Give the name of chemical fertilizers.
- (2) Mention the normal structure of living cell.
- (3) Give three illustrations of phenomena in which gravitational force is used.
- (4) Explain the process of digestion occurring in stomach.
- (5) State four uses of solar cell.

**(B) Classify the following into food-storing root and food-storing stem : 4**

Ginger, Sweet potato, Amorphophallus, Carrot, Potato, Turmeric, Radish, Beet.

**(C) State whether the following statements are true or false. Correct the false statements and rewrite them : 4**

(1) If a magnet is heated for a long time, then its magnetism increases.

(2) The plants release carbon dioxide during respiration.

(3) Ice is heavier than water.

(4) Trachea is located behind oesophagus.

---