

# NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH

Affiliated to CBSE – New Delhi, No:5730008



## Half Yearly Examination (2018-2019)

Subject: **SCIENCE**

Set: **A**

Date: **03.07.2018**

Class: **7**

Time: **2 ½ Hours**

Max.Marks: **80**

### General Instructions:

1. Please check that this question paper contains all the printed pages
2. All answers must be written in the provided answer sheet.
3. Read each question carefully and follow the instructions.
4. Do not write anything in the margin.
5. Do not exceed the prescribed word limit while answering the questions.
6. Do not split sections

### SECTION-A

#### I) Answer in a word or sentence:

(1X 8=8m)

1. What is the role of caecum in herbivores?
2. Why is sublimation a physical change?
3. Homes built in hot climates are usually painted white. Why?
4. What are enzymes?
5. Give the SI unit of temperature.
6. Clinical thermometers have short ranges. Give reason.
7. Give the word equation for photosynthesis.
8. Why is heat considered as a form of energy?

#### II) Answer the following:

(2x8 = 16m)

1. How do saprophytes help in maintaining nutrient balance in the soil?
2. What is peristalsis? Why is it important?
3. List any four characteristics of chemical change.
4. All liquids cannot be used in thermometers. Justify the statement.
5. Explain how a thermos flask keeps liquid hot.
6. What are the end products of fats and proteins?
7. Convert into Celsius and Fahrenheit respectively (a) 62<sup>0</sup>F (b) 50<sup>0</sup>C.
8. Why is rusting considered to be a harmful chemical change?

#### III) Answer the following;

(3x8=24m)

1. (a) Name two insectivorous plants. Why do they trap insects?  
(b) What are lichens?

2. State the role of the following in the process of digestion.  
(a) Saliva                      (b) Liver                      (c) large intestine
3. How are the processes of crystallization and sublimation useful in daily life?
4. Identify the thermometer shown below, copy the figure and label any three parts in the figure.



5. Can conduction happen in liquids and gases? Why or why not?
6. Explain the process of nutrition in amoeba.
7. Identify the following changes as physical or chemical.  
(a) Burning of magnesium ribbon  
(b) Rolling of dough  
(c) Digestion  
(d) Tarnishing of silver  
(e) Mixing iron particles with sand  
(f) Blowing air into a balloon
8. Define the following terms:  
(a) Assimilation                      (b) Digestion                      (c) Egestion

**IV) Answer the following;**

**(5x4=20m)**

1. Name the part of the alimentary canal involved in the following:  
(a) Complete digestion of food  
(b) Absorption of food  
(c) Chewing of food  
(d) Killing of bacteria  
(e) Formation of faeces.

2. Give reasons:

- (a) Having wooden floors and roofs for heated buildings in cold countries
- (b) Air conditioners are kept on top of a room
- (c) Woolen clothes are preferred in winter

3. What is nitrogen fixation? Explain the role of leguminous plants in the process of nitrogen fixation?

- 4. (a) Why do we prefer dry ice to keep ice creams instead of normal ice?
- (b) Briefly explain the process of crystallization.

### SECTION – B

#### V) Multiple choice questions:

(1x12=12m)

1. The presence of starch can be detected using

- a. Chlorophyll
- b. Iodine
- c. Albumin
- d. Copper Sulphate

2. No medium is required for transfer of heat by the process of

- a. Radiation
- b. Conduction
- c. Convection
- d. Insulation

3. Tiny pores present on the surface of leaves through which gaseous exchange occurs are called

- a. Guard cells
- b. Stomata
- c. food holes
- d. gas holes

4. Saliva helps in the digestion of

- a. Starch
- b. Fats
- c. Proteins
- d. Vitamins

5. Where is bile produced?

- a. Liver
- b. Gall bladder
- c. Blood
- d. Spleen

6. Which of the following is NOT the physical property of a substance?

- a. shape
- b. density
- c. color
- d. flammability

7. The process of obtaining salt by evaporation of sea water is called

- a. Crystallisation
- b. Sublimation
- c. Evaporation
- d. Galvanisation

8. When carbon-dioxide is passed through lime water, it turns

- a. milky
- b. blue
- b. silver
- d. golden

9. For amoeba, the food procuring structure is

- a. tongue
- b. pseudopodia
- c. tentacles
- d. cilia

10. An iron bar at  $45^{\circ}\text{C}$  is kept into a tray of water at  $45^{\circ}\text{C}$ . Heat will

- a. flow from iron bar to the water
- b. From water to the iron bar
- c. not flow between them
- d. flow and increase the temperature

11. Which of the following are autotrophs

- a. All plants
- b. Green plants
- c. unicellular organisms
- d. All animals

12. A wooden spoon is dipped in a cup of ice cream, its other end

- a) Becomes cold by conduction
- b) Becomes cold by convection
- c) Becomes cold by radiation
- d) does not become cold

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