

## JASWANT MODERN SR. SEC. SCHOOL, SCIENCE WORKSHEET-2, CLASS VII

Note: - Do this worksheet in a separate notebook.

### CHAPTER 1- Nutrition in plants

#### Multiple choice questions

- The simplest food produced during photosynthesis is  
(a) Starch (b) cellulose (c) glucose (d) sucrose
- Which one is not a parasite  
(a) Lice (b) leech (c) alga (d) cuscuta
- Which of the following show symbiosis  
(a) Alga and fungus (b) alga and fish (c) fungus and amoeba (d) cuscuta and alga
- Tiny pores present on the surface of a leaf for the exchange of gases.  
(a) Pseudopodia (b) villi (c) stomata (d) veins
- An example of insectivorous plant.  
(a) Cuscuta (b) fungi (c) pitcher plant (d) alga

#### Fill in the blanks

- In the \_\_\_\_\_ containing partner is an alga and fungus
- The food synthesized by plants is stored as \_\_\_\_\_.
- The food factories of the \_\_\_\_\_ plants are their leaves
- Chlorophyll helps the plants to absorb energy from the \_\_\_\_\_
- Rhizobium bacteria is a \_\_\_\_\_-fixation bacteria.
- During \_\_\_\_\_, Plants take in oxygen and release \_\_\_\_\_.
- Saprotrophs are the organisms that depend on \_\_\_\_\_ and \_\_\_\_\_ plant and animal matter for nutrition.
- Nitrogen is the mineral needed by plants to make proteins
- The leather objects that are left in hot and humid weather for long time are spoiled due to growth of \_\_\_\_\_
- An example of complete parasite is \_\_\_\_\_.

#### Answer the following

- What are complete parasite and partial parasite? Give examples.
- Give a description of the process of synthesis of food in green plants.
- Draw a diagram showing photosynthesis and structure of a stomata.
- The organ A of a tree have large number of tiny pores called B on their surface. Each pore is surrounded by a pair of cells called C. The opening and closing of pores in A is controlled by C. The gas D present in air enters the organs A through pores B and utilized in food making process E. The gas F produced during process E goes out through the same pores B. What is A, B, C, D, E and F.
- What name is given to the relationship between an alga and fungus to form lichens?
- What all things can fungi destroy?
- Why are the leaves of a plant usually green in colour?

### CHAPTER 2- Nutrition in animals

#### Multiple choice questions

- During the process of digestion, proteins are broken down into  
(a) Glucose (b) amino acids (c) glycerol (d) vitamins
- The organ that secretes bile is  
(a) Stomach (b) liver (c) Pancreas (d) gall bladder
- In human beings' water and undigested food goes to the  
(a) Liver (b) Pancreas (c) large intestine (d) small intestine
- The process of intake of food in the buccal cavity is called  
(a) Digestion (b) ingestion (c) egestion (d) absorption
- Grass-eating animals are called  
(a) Amoeba (b) cud (c) ruminants (d) fungi

#### Fill in the blanks

1. Pseudopodia is a structure used for \_\_\_\_\_ of food and \_\_\_\_\_.
2. Pancreas is located just below the \_\_\_\_\_.
3. \_\_\_\_\_ is a reddish- brown coloured gland.
4. Grass is rich in a \_\_\_\_\_ known as cellulose.
5. The length of small intestine is \_\_\_\_\_.
6. The cream -coloured gland in the human body is called \_\_\_\_\_.
7. \_\_\_\_\_ gland is present in the mouth.
8. The other name for food pipe is \_\_\_\_\_.
9. The process of removing waste from the human body is called \_\_\_\_\_.
10. \_\_\_\_\_, \_\_\_\_\_ and digestive juices are secreted by the inner lining of the stomach.

### Answer the following

1. Explain the process of rumination.
2. Write the products of digestion of following food components.
  - a. Carbohydrates
  - b. Proteins
  - c. Fats
3. When food is put in our mouth, the teeth cut, chew, and grind it. The glands A present in mouth secrete a watery liquid B which helps to digest component C present in the food partially. This partially digested food then passes through tube D into an organ E. The inner walls of organ E secrete mucus, hydrochloric acid and digestive juices.

What are (i) A (ii) B (iii) C (iv)D (v)E

4. Name the component of food which is broken down by the digestive juices secreted by organ E.
5. Explain the working of small intestine in the human digestive system.
6. What is the role of hydrochloric acid in stomach?
7. Why do we get instant energy from glucose?
8. What is the function of pseudopodia in amoeba?
9. Write the names of different processes involved in the digestion of food in human beings.
10. Draw a labelled diagram of Amoeba.
11. What are proteins, fats and carbohydrates broken down into?

### CHAPTER 3- Heat

#### Multiple choice questions

1. The silvery grey substance inside the thermometer is
  - (a) copper
  - (b) mercury
  - (c) gold
  - (d) alcohol
2. The thermometer that is used for measuring temperature of liquids during experiments is called
  - (a) clinical thermometer
  - (b) digital thermometer
  - (c) laboratory thermometer
  - (d) maximum and minimum thermometer
3. The thermometer use to measure the temperature of the day for weather report
  - (a) clinical thermometer
  - (b) digital thermometer
  - (c) laboratory thermometer
  - (d) maximum and minimum thermometer
4. Which of these is a insulator of heat?
  - (a) Wood
  - (b) iron
  - (c) copper
  - (d) aluminum
5. The transfer of heat in form of rays and waves is done in
  - (a) evaporation
  - (b) conduction
  - (c) convection
  - (d) radiation

#### Fill in the blanks.

1. The kink in a thermometer prevents the backflow of \_\_\_\_\_ into the bulb.
2. The boiling point of water in the Fahrenheit scale is \_\_\_\_\_.
3. Light colours are good \_\_\_\_\_ of heat.
4. Solar heaters are designed to use the heat energy from the \_\_\_\_\_ for cooking food.
5. No \_\_\_\_\_ is required for transfer of heat through radiation.
6. The SI unit of heat is \_\_\_\_\_.
7. In fluids, heat is transferred by \_\_\_\_\_.
8. The freezing point of water in Fahrenheit scale is \_\_\_\_\_.

9. Three modes of heat transfer is \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.

10. The normal human body temperature is \_\_\_\_\_.

**Answer the following questions.**

1. How does the heat from the sun reach the earth?
2. Describe the blowing of sea breeze and land breeze in coastal area
3. What kinds of clothes should be worn in summers and why?
4. How does the heat from the sun reach the earth?
5. A person seating in front of a room heater feels hot. Name the process by which heat is transferred?
6. What is the freezing point and boiling point of water in Fahrenheit scale?
7. What is meant by good conductor of heat? Give two examples of conductors of heat.
8. Why is frying pan made of metal but the handle is made of plastic or wood?
9. Define temperature? Name the device used to measure temperature.
10. Why does the mercury level do not fall down when a thermometer is taken out from the mouth.
11. What is heat transfer? Name three modes of heat transfer.