

Name _____ Sign of invig _____

Model Paper
Time: 2:30 Hrs. **Class 7(EM)** **M.M. 75**
Subject- Biology

All the questions are compulsory.

- 1) Tick the correct answer :- 10**
- i) Cuscuta is an example of –
(a) Autotrophs (b) Parasite (c) Saprotrophs (d) Host
 - ii) The plants which traps and feeds on insect is-
(a) Cuscuta (b) China rose (c) Pitcher Plant (d) Rose
 - iii) Fat is completely digested in-
(a) Stomach (b) Mouth (c) Small intestine (d) Large intestine
 - iv) Water from the undigested food is absorbed mainly in the:
(a) Stomach (b) Food Pipe (c) Small Intestine (d) Large Intestine
 - v) In cockroaches, air enters the body through:
(a) Lungs (b) Gills (c) Spiracles (d) Skin
 - vi) Normal range of breathing rate per minute in an average adult person at rest is:
(a) 9-12 (b) 15-18 (c) 21-24 (d) 30-33
 - vii) During exhalation the ribs move-
(a) Outwards (b) Downwards (c) Upwards (d) Do not move at all
 - viii) During heavy exercise we get cramps in the legs due to the accumulation of:
(a) Carbon dioxide (b) Lactic acid (c) Alcohol (d) Water
 - ix) In the plants, water is transported through:
(a) Xylem (b) Phloem (c) Stomata (d) Root Hairs
 - x) Water absorption through roots can be increased by keeping the plants:
(a) In the shade (b) In dim light
(c) Under the fan (d) Covered with a polythene bag

- 2) Fill in the blanks. 10**
- i) Hemoglobin is present in _____ cell.
 - ii) Arteries and veins are joined by a network of _____
 - iii) Sweat contains water and _____.
 - iv) The air tubes of insects are called _____.
 - v) The respiratory organ of a human being is _____.
 - vi) The small openings on the sides of the body of an insect is _____.
 - vii) The food synthesized by the plants is stored as _____.

- viii) Green plants are called _____ since they synthesize their own food.
 - ix) The inner wall of the small intestine has many finger like outgrowth called _____.
 - x) Amoeba digests its food in the _____.
- 3) Answer the following questions in one word :- 10**
- i) Which part of the digestive canal is involved in absorption of food.
 - ii) The process of taking food into the body.
 - iii) The process of removal of fecal matter through anus.
 - iv) Tiny pores present on the underside of the leaves which helps in the exchange of gasses.
 - v) Name an organism which respire anaerobically.
 - vi) Name the animal which can respire both by lungs and skin.
 - vii) Kidneys eliminate the waste materials in the liquid form.
 - viii) The vascular tissue responsible for the transport of water and nutrients.
 - ix) The upper two chambers of the heart .
 - x) The organ which beats continuously to act as a pump for the transport of blood.

- 4) Draw a well labeled diagram of Human digestive system OR Human excretory system. 10**
- 5) Mark the statement as true or false - 5**
- i) The fishes have lungs for respiration. []
 - ii) The bile juice digests fat. []
 - iii) The ruminants bring back swallowed grass into their mouth and chew it for sometimes. []
 - iv) Plants carry out photosynthesis only during the day and respiration only at night. []
 - v) Water reaches great height in the trees because of suction pull caused transpiration. []
- 6) Differentiate the following:- 5**
Aerobic respiration and Anaerobic respiration.

- 7) Answer the following questions:- 25**
- i) Why do organisms need to take food?
 - ii) What are stomata? Explain the functions of stomata.
 - iii) Describe the function of the heart?
 - iv) Why does an athlete breathe faster and deeper than usual after finishing the race?
 - v) Why do we get instant energy from glucose?