

Model Question Paper
Life Processes (B) - Part I

10th Standard

Science

Reg.No. :

--	--	--	--	--	--

I. Answer all the questions.

II. Use Blue pen only.

III. Question No 16 is compulsory

Time : 00:50:00 Hrs

Total Marks : 50

5 x 1 = 5

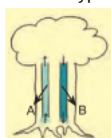
Section-A

- 1) In monotropa the special type of root which absorbs nourishment is the
(a) Haustoria (b) Mycorrhizal root (c) Clinging root (d) Adventitious root
- 2) The product obtained in the anaerobic respiration of yeast is
(a) Lactic acid (b) Pyruvic acid (c) Ethanol (d) Acetic acid
- 3) The roots of a coconut tree are seen growing far from the plant. Such a kind of movement of root for want of water is
(a) Phototropism (b) Geotropism (c) Chemotropism (d) Hydrotropism
- 4) The xylem in the plants is responsible for
(a) Transport of water (b) Transport of food (c) Transport of amino acids (d) Transport of oxygen
- 5) The autotrophic nutrition requires
(a) CO₂ and water (b) Chlorophyll (c) Sunlight (d) All the above

Section-B

7 x 2 = 14

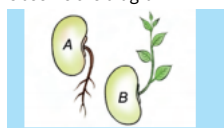
- 6) Name the types of vascular tissues in the plant stem which are labelled A and B.



- i) Name A and B
 - ii) What materials are transported through A?
 - iii) What materials are transported through B?
 - iv) How do the materials in A move up wards to the leaves?
- 7) What is nutrition? What type of nutrition is seen in green plants and the majority of animals?
- 8) Match the methods of nutrition of special organs with suitable examples:

Autotrophs	Mycorrhiza	cuscutta
parasites	chlorophyll	Monotropa
saprophytes	Haustoria	Hibiscus

- 9) Observe the diagram



- i) Mention the type of movements shown in figure A and B. ii) How does this movement differ from the movement of mimosa?
- 10) In the process of anaerobic respiration, _____ is a 6 carbon compound which gets converted into _____ carbon compound called lactic acid.
- 11) Sugar is converted into alcohol. In the above reaction what kind of process takes place? Which micro-organism is involved?
- 12) In human beings, air enters into the body through _____ and moves into _____. In fishes, water enters into the body through _____ and the dissolved oxygen diffuses into _____.

Section-C

5 x 5 = 25

- 13) Describe the various movements of plants giving suitable examples.
- 14) Describe the various methods of excretion in animals.
- 15) Compare the respiration in higher plants with the respiration in lower plants.
- 16) a) In the touch-me-not plant the leaves show movements. What type of movement have you observed? Discuss.

(OR)

- b) Differentiate extra-cellular digestion from intra-cellular digestion. which one is an advanced form?
