

MAR THOMA RESIDENTIAL SCHOOL THIRUVALLA
FIRST TERMINAL EXAMINATION 2019-2020
BIOLOGY

STD: VII

TIME: 2 Hours

MAX.MARKS:80

SECTION -A (40 MARKS)

Question 1

- a. Name the following (5)
1. Cells that are elongated and thickened at corners.
 2. Living component of a cell
 3. The structure in which spores are produced in a fungus
 4. Bacteria present in root nodules of a leguminous plant
 5. A photosynthetic protist.
- b. Define the following terms (5)
1. Classification
 2. Antibiotics
 3. Symbiosis
 4. Tissue
 5. Organ
- c. Give the exact location of each of the following (5)
1. Sclerenchyma cells
 2. Tendons
 3. Capsule
 4. Unstriated muscles
 5. Ciliated epithelium
- d. Write down any one function of each of the following (5)
1. Rhizoids
 2. Pseudopodia
 3. Meristematic tissue
 4. Cuboidal epithelium
 5. Collenchyma
- e. Differentiate the following pairs on the basis of what is given in the bracket (5)
1. Autotrophs and heterotrophs (Definition)
 2. Bacteria and amoeba (Type of nucleus)
 3. Algae and fungi (Mode of nutrition)
 4. Dicots and monocots (Venation)
 5. Blood and lymph (Components)

f. Given below is five sets of four terms each. In each set there is one term which does not belong to the group to which the other three belongs. Identify the odd term and give reason (5)

1. Bacteria, Amoeba, Mushroom, Euglena.
2. Rice, Grass, Maize, Sunflower
3. Parenchyma, Collenchyma, Xylem, Sclerenchyma
4. Grass, Mango, Cedar, Maize
5. Areolar tissue, Ligaments, Tendons, Cartilage

g. Note the relationship between the first two words and suggest the suitable word or words for the fourth place. [5]

- 1 Bacteria : monera :: Algae : _____
- 2 Adipose : fibrous tissue :: Bone _____
- 3 Typhoid : Bacteria :: Athletes foot : _____
- 4 Gymnosperm : Cone :: Pteridophyte : _____
- 5 Coccus : round :: Vibrio : _____

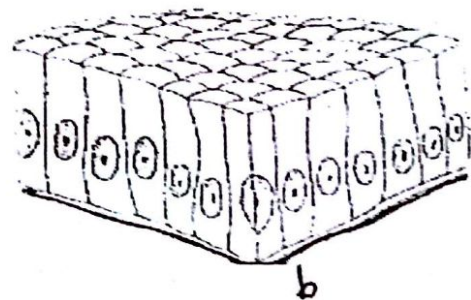
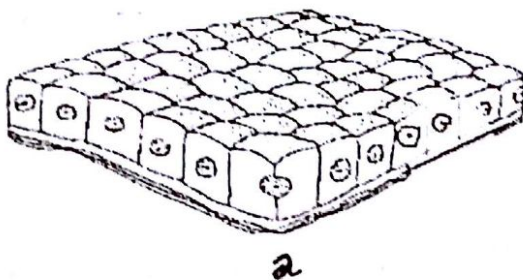
h. Match the items given in column A with the most appropriate ones in column B and rewrite the correct matching pair. [5]

- | | |
|---|--|
| <ol style="list-style-type: none"> 1 Vascular tissue 2 Epithelial tissue 3 Ferns 4 Spirogyra 5 Muscular tissue | <ol style="list-style-type: none"> leaves with spores chlorophyll present transport protection support movement angiosperms |
|---|--|

SECTION B – (40 marks)

Question 2

a. Given below are the diagrams of two types of animal tissues. Study the diagram and answer the questions that follow. (6)



1. Identify the tissues (a) and (b).
2. Write down any one function each for (a) and (b)
3. Give a location each for (a) and (b)
4. Draw a neat diagram of a parenchyma cell. What is its function?

b Give biological explanations for the following (5).

1. Bryophytes are the amphibians of plant kingdom.
2. Bacteria is a harmful organism
3. Fungus grows only on the top layer of the bread and not in the lower layer.
4. Water drops falling on a leaf do not stick on it.
5. Packed food items should not be consumed after the expiry date.

Question 3

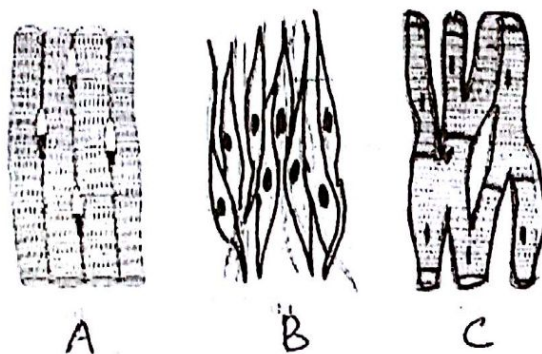
- a.
1. Draw a well labelled diagram of a neuron. (5)
 2. What is its function?
 3. What is a nerve?
 4. Give any one difference between bone and cartilage.
- b. Explain the following biological terms (5)
1. Permanent tissue.
 2. Striated muscles
 3. Pteridophytes
 4. Dicotyledons
 5. Binary fission

Question 4 (5)

- a.
1. Draw a bacterial cell and label its parts.
 2. What is the reserve food in a bacteria?
 3. Mention the uses of the following
 - a. Lactobacillus
 - b. Acetobacter
 4. In what way is a bacteria useful in the medical field.

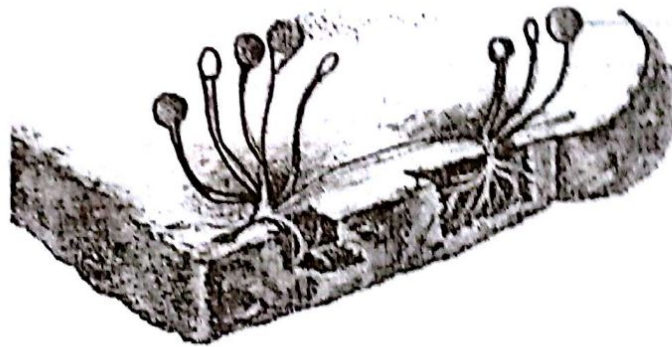
Given below is the diagram of a type of tissue in animals. Study the diagram and answer the questions that follow.

(5)



1. Identify the tissues – A, B and C
2. Give the functions of this tissue
3. Which is the tissue involved in conducting food in a plant?

a. Given below is the diagram of an organism.



1. Identify the kingdom to which the above organism belongs. Is it a prokaryote or eukaryote?
2. Give any two useful and two harmful effects of members of the above kingdom.
3. What is a sporangiophore?

b. Give the biological terms

1. Plant which do not have leaves, stem and roots
2. An edible mushroom
3. Animals without a backbone
4. The major waste generated in an amoeba.
5. Tissue which transport water in plants.
6. Structural and functional unit of life.
7. Single cell from which multicellular organisms develop.
8. Tissue with thin walled cells with intercellular space.
9. Thread like structure forming the body of a fungus.
10. Organisms living on the body of a host organisms.