

## BIOLOGY

### IX – SA1

#### SECTION-A ONE MARK QUESTION

1. Name two cell organelles that have their own genetic material.
2. What type of tissue is found at the shoot apex?
3. Define hybridization
4. Name the cell organelle responsible for protein synthesis
5. Which chemical is deposited in the cells of the Sclerenchyma tissue
6. Define the term Sustainable agriculture
7. Give the term for the incipient nucleus of Prokaryotes.
8. Which tissue is commonly known as 'packaging' tissue?
9. Name any two common needs that grow with wheat and paddy.
10. Which organelle is called powerhouse of the cell and why?

#### SECTION B TWO MARKS QUESTIONS

1. A plant cell is placed in a hypotonic solution. What will happen? Will the cell burst? Why or why not?
2. Differentiate between parenchyma and collenchymas tissue. Draw a collenchyma tissue.
3. What is the advantage of intercropping? Give one example.
4. Why is plasma membrane is called selectively permeable membrane. How do substances like  $O_2$  and  $CO_2$  move in and out of the cell.
5. Differentiate between tendon and ligament.
6. Name two high yielding breeds of cows
7. What are the different types of endoplasmic reticulum? Write the functions of each.
8. What is the main function of vascular tissues in plants?
9. Give any two differences between micro and macronutrients.
10. Give the differences between diffusion and osmosis.

#### SECTION C THREE MARKS QUESTION

1. Write three differences between a prokaryotic cell and eukaryotic cell.
2. Name three different types of blood cells and give their functions.
3. Name the nutrients which plants get from air, water and soil.
4. Give three differences between epithelial tissue and connective tissue.
5. Give any three differences between mixed cropping and intercropping
6. Draw a neat labeled diagram of a plant cell. Name the organelle of this cell which is commonly called the 'power house of the cell'.
7. Draw a sketch to show the locations of meristematic tissues in a plant body and write the function of any two of them.
8. A) What is vermicompost?  
b) What are advantages of compost fish culture?  
C) What is pasturage?
9. What are the consequences of the following conditions?  
a) A cell containing higher water concentration than the surrounding medium  
B) A cell having low water concentration than the surrounding medium  
C) A cell having equal water concentration to its surrounding medium.
10. Differentiate between manures and fertilizers? What the advantages of using manures.