

Instructions

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- Q1.** What does the term plasmolysed mean when used to describe a cell? **2 Marks**
- Q2.** Which organelles constitutes the network of complex cellular membrane system in living cells? **2 Marks**
- Q3.** Do you agree that “A cell is a building unit of an organism”. If yes, explain why? **2 Marks**
- Q4.** What are centrioles? Write about their function. **2 Marks**
- Q5.** Name the largest plant cell. **2 Marks**
- Q6.** Which organelle is the “power plant” of eukaryotic cell. Write in brief its functions. **2 Marks**
- Q7.** What is protoplasm? **2 Marks**
- Q8.** What are the consequences of the following condition?
A cell containing higher water concentration than the surrounding medium. **2 Marks**
- Q9.** Define Diffusion. **2 Marks**
- Q10.** Which cellular organelle uses, molecular oxygen like mitochondria but protects the cell from toxic metabolic by products? **2 Marks**
- Q11.** From where do new cells arise? **2 Marks**
- Q12.** Do the plant cells contain centriole? **2 Marks**
- Q13.** How does amoeba obtain its food? **2 Marks**
- Q14.** Name two cell organelles, which contain their own genetic material. **2 Marks**
- Q15.** What are the genes? Where are they located in the cell? **2 Marks**
- Q16.** brief state what happens when:
A red blood cell is kept in concentrated saline solution? **2 Marks**
- Q17.** What is the main function of each of the following organelles?
1. **2 Marks**
- Q18.** Cytoplasmic bridges between adjacent plant cells are called? **2 Marks**
- Q19.** Which types of ribosomes are found in prokaryotes and eukaryotes? **2 Marks**
- Q20.** Name the cell organelle in which following structures are present:
1. **2 Marks**
- Q21.** brief state what happens when:
Rheo leaves are boiled in water first and then a drop of sugar syrup is put on it? **3 Marks**

- Q22.** How is bacterial cell different from onion cell? 3 Marks
- Q23.** What would happen to the life of a cell, if there are no vacuoles? 3 Marks
- Q24.** What will happen if:
1. Excess amount of fertilizer is 3 Marks
- Q25.** What is the difference between plasma membrane and cell wall? Give the functions of each one. 3 Marks
- Q26.** Differentiate between the following:
Chromosome and chromatid. 3 Marks
- Q27.** What is the role of nuclear pores in a cell? 3 Marks
- Q28.** Describe the proteins of plasma membrane. 3 Marks
- Q29.** Why is it said that 'a' cell without a nucleus is without any future? 3 Marks
- Q30.** Distinguish between prokaryotic and eukaryotic cells. 3 Marks
- Q31.** Write down two main functions of:
1. Endoplasmic reticulum 3 Marks
- Q32.** Draw a neat diagram of plant cell and label any three parts which differentiate it from animal cell. 3 Marks
- Q33.** Name the molecules which contribute to the flexibility exhibited by the plasma membrane. 3 Marks
- Q34.** Write any two differences between prokaryotic and eukaryotic cells. 3 Marks
- Q35.** Write down three basic characteristics of a cell. 3 Marks
- Q36.** Write down differences between nucleus and nucleolus. 3 Marks
- Q37.** Define: (i) Hypertonic solution; (ii) Hypotonic solution; (iii) Isotonic solution. 3 Marks
- Q38.** Write down differences between organ and organelle. 3 Marks
- Q39.** If you are provided with some vegetables to cook. You generally add salt into the vegetables during cooking process. After adding salt, vegetables release water. What mechanism is responsible for this? 3 Marks
- Q40.** Identify the site for protein synthesis in a cell. 3 Marks

