***Objective Type Questions***

**1.** Which organelle is found in animal cells only

*(a)*Chloroplast

*(b)*Nucleus

*(c)*Centrioles

*(d)*Vacuoles

**2.**  Three features which are found in almost every cell are

 *(a)* plasma membrane , nucleus and cytoplasm

 *(b)* cell wall , endoplasmic reticulum and nucleus

 *(c)* cell wall , cytoplasm and Golgi apparatus

 *(d)* plasma membrane , nucleus and plastids

 **3.**  Process in which cell engults food and other material from its external environment known as

 *(a)* diffusion

 *(b)* endocytosis

 *(c)* osmosis

 (d) plasma

**4.** Which of the following cell organelles have their own DNA and ribosomes ?

 *(a)* Rough endoplasmic reticulum

 *(b)* Golgi apparatus

 *(c)* Lysosomes

 *(d)* Mitochondria

**Directions** (Q. Nos. 5-6) In the following questions , a statement of Assertion followed by a statement of Reason. Mark the correct choice as

1. If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
2. If both Assertion and Reason are true , but Reason is not the correct explanation of Assertion.
3. If Assertion is true , but Reason is false.
4. If Reason is true , but Assertion is false.

**5. Assertion** Cells having cell wall withstand very dilute (hypotonic) external without bursting.

**Reason** The cell wall exerts an equal pressure against the swollen cell.

**6. Assertion** Lysosomes are also known as ‘suicide bags’ of a cell.

**Reason** Lysosomes provide turgidity and rigidity to the cell.

**7.** Give the term for the incipient nucleus of prokaryotes.

**8.** Which organelle is called as the ‘protein factory’ of cell?

**Short Answer Type Questions**

**9.** If Golgi apparatus is removed from a cell , what will be the three consequences by the cell ?

**10.** Which cell organelle is known as power house of the cell and why ? Describe structure with special reference to its membrane covering .

**11.** Who first described Golgi apparatus ? Briefly describe its structure . What

are its functions ?

**12.** A cell is placed in a solution of sugar in water . What will happen , if the medium

 *(a)* around the cell has a higher water concentration that the cell ,

 *(b)* has preciserly the same water concentration as the cell and

 *(c)* has a lower concentration of water than the cell ?

**Long Answer Type Questions**

**13.** Name the three major functional regions of a cell . Explain then briefly.

**14.** What are the main functions of each of the following cell components?

 *(a)* Lysosomes

 *(b)* Chromosomes

 *(c)* Ribosomes

 *(d)* Nucleus

 *(e)* Vacuoles