

**Avinashilingam Institute for Home Science and Higher Education for Women**

**(Deemed to be University) Coimbatore-641 043**

**Bachelor's Degree Examination – November 2018**

**V Semester**

**Class : III UG  
Major : Botany**

**Time :3 hours  
Max. Marks: 100**

**15BBOC13-Cell biology**

**Part-A**

**10 x 1=10**

**Choose the correct answer**

1. The term cell was coined by  
a. Schwann    b. Robert Hook    c. de Bary    d. Tatum
2. Identify the non membranous organelle from the following  
a. Ribosome    b. ER    c. Nucleus    d. Chloroplast
3. The process in which water molecules enter in to the cell is called as  
a. Endosmosis    b. Exosmosis    c. transpiration    d. Diffusion
4. Which of the following is called as the cytoskeleton of the cell?  
a. Nucleus    b. Plasma membrane    c. Endoplasmic Reticulum    d. Lysosome
5. Golgi complex is also called as  
a. Suicidal bodies    b. Dictyosome    c. Power house    d. ER
6. Which of the following is called the 'assembly shops' of a cell?  
a. Ribosomes    b. Mitochondria    c. Dictyosomes    d. Chromosome.
7. In eukaryotes ribosome is synthesized in the \_\_\_\_\_  
a. Nucleolus    b. Mitochondria    c. Nucleus    d. Chromosome.
8. Darkly stained condensed regions of chromosomes are called as \_\_\_\_\_  
a. Genes    b. Euchromatin    c. Histones    d. Heterochromatin
9. DNA wrap around the histone in the form of a bead is called as \_\_\_\_\_  
a. Nucleosome    b. Nucleolous    c. Chromatin    d. Chromosomal proteins
10. DNA replication occurs in \_\_\_\_\_  
a. S phase    b. G phase    c. G2 phase    d. M phase .

**Part B**

**5 X 6=30**

**Answer the following**

**Answer should not exceed 400 words or two pages**

- 11.a. Write an account on Endocytosis  
(or)
- 11.b. Write a brief account on the chemistry and functions of Cell wall
- 12.a. Write about the components of endoplasmic reticulum in brief.  
(or)
- 12.b. Explain the functions of mitochondria
- 13.a. Write about the functions of Ribosomes  
(or)
- 13.b. Differentiate 70s and 80s Ribosomes
- 14.a. Explain about the structure of chromosomes.  
(or)
14. b. What are the functions of chromosomes?

