

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2018
(Third Semester)

Branch - **BOTANY**

CELL AND TISSUE BIOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

- 1 Define diffusion.
- 2 Write any two function of cell wall.
- 3 What is Plastids?
- 4 Thylakoid.
- 5 What is Vacuole?
- 6 Microtubules.
- 7 Write the function of nucleoplasm.
- 8 What is Nucleolus?
- 9 What is Parenchyma?
- 10 Define Sclerides.

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Write brief note on Plasmolysis.
OR
b Give a short account on functions of cell wall.
- 12 a Describe the fluid mosaic model of plasma membrane.
OR
b Brief on the structure of Mitochondria.
- 13 a Write short notes on Ribosomes.
OR
b Describe the ultra structure of Golgi complex.
- 14 a Give an account of the structure and function of Nuclei.
OR
b Write about the structure of nucleoplasm.
- 15 a Describe different types of collenchyma.
OR
b , Write brief notes on fibres.

SECTION - C (30 Marks!)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Write an essay on chemical nature of cell wall.
- 17 Write detail notes on the structure and function of chloroplast.
- 18 Explain the ultra structure of Endoplasmic reticulum and its functions.
- 19 Describe the structure and function of Nuclear membrane.
- 20 Exnound the structure and function of sclerides