

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

Branch- **BOTANY**

MICROBIOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

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

- 1 Write the contribution of Robert Koch.
- 2 What is T₄ phage?
- 3 What are the components of Plasma Membrane of bacteria?
- 4 Write the importance of Plasmids.
- 5 Write any two medicinal property of cyanobacteria.
- 6 Write about the habit and habitat of Lichens.
- 7 Write about nutritive value of Agaricus.
- 8 What is tikka disease of Groundnut?
- 9 Write about food spoiling microbes.
- 10 What is food preservation?

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a List out the contribution of Joseph Lister and write its importance.
OR
b Explain the structure of TMV virus.
- 12 a Write about bacterial population and growth.
OR
b Explain the components and its importance of cell wall of bacteria.
- 13 a Explain the structure and multiplication of Scytonema.
OR
b Write about the thallus organization of lichens.
- 14 a Explain the asexual and sexual reproduction of Aspergillus.
OR
b Write about disease cycle and control measures of Blight of Paddy.
- 15 a Write the general characters of Food Spoilage Microbes.
OR
b Write short notes on food safety and quality control.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Write an essay on life time contribution of Louis Pasteur and Robert Koch.
- 17 Explain the types of bacterial nutrition and its reproduction.
- 18 Explain elaborately the structure and multiplication of Spirulina and write its economic importance.

19. Draw the structure of Tobacco Mosaic Virus (TMV) with diagram.