

**PSG COLLEGE OF ARTS & SCIENCE**  
(AUTONOMOUS).  
**BSc DEGREE EXAMINATION MAY 2017**  
(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 any two contribution of Louis Pasteur.
- 2 What is T4 phage?
- 3 Define Pili.
- 4 What is plasmamembrane?
- 5 Spirulina.
- 6 What is mycobiant?
- 7 Edible fungi.
- 8 Define budding.
- 9 Preservation. ■
- 10 Define microbial spoilage.

**SECTION - B (25 Marks)**

Answer **ALL** Questions

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

- 11 a Briefly explain TMV.  
OR  
b Explain the classification of virus.
- 12 a Write a short notes on bacterial growth.  
OR  
b Give an account of ultrastmeture of bacterial.
- 13 a Briefly explain the structure of cyanobacterial cell.  
OR  
b Mention the importance of cyanobacteria to the environment.
- 14 a What are the general characters of fungi?  
OR  
b Give the asexual reproduction of aspeorgillus.
- 15 a Give an account of bacterial blight of paddy.  
OR  
b Comment on reproduction of Agarium.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

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

- 16 Explain the structure and multiplication of T4 phase.
- 17 Describe the nutritional types of bacteria.
- 18 Describe the thallus organisation of Lichens.
- 19 Give an account of major classes of fungi.
- 20 Describe the asexual and sexual reproduction of saccharomyces.