

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION DECEMBER 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 the contribution of Joseph Lister.
- 2 What is TMV?
- 3 What are the components of Bacterial cell wall?
- 4 What are Plasmids?
- 5 Write the medicinal property of Spirulina.
- 6 Mention any two economic importance of Lichens.
- 7 Write about edible Fungi.
- 8 What is Bacterial blight of paddy?
- 9 Write about Gastro enteritis.
- 10 What is food borne infection?

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a List out the contribution of Louis Pasteur and write its importance,
OR
b Differentiate Transmission and Transduction.
- 12 a Name the types of bacterial nutrition and explain it.
OR
b Write short notes on Bacterial growth.
- 13 a Write about the thallus organization of Lichens.
OR
b Explain the structure and multiplication of Spirulina
- 14 a Explain the asexual and sexual reproduction of Saccharomyces.
OR
b Write about symptoms, and control measures of rust of wheat.
- 15 a What are Food Spoilage Microbes? Write its general characters.
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 microorganisms in soil.
- 17 With neat diagram, explain the ultra structural details of a bacterial cell.
- 18 Explain the thallus variation of Cyanobacteria.
- 19 Explain the reproduction of Agaricus.
- 20 Explain the food preservation methods.

Z-Z-Z

END