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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018

(Second Semester)

Branch - **BIOCHEMISTRY**

MICROBIOLOGY

Time: Three Hours' Maximum: 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks (10x2 = 20)

- 1 Mention the uses of light microscope.
- 2 Describe the principles of gram staining.
- Write about the types of bacterial flagella
- 4 What are the commercial products of algae?
- 5 Comment on exotoxins.
- Write about the causative organism of Influenza and Tetanus.
- 7 Define Virion.
- 8 What are oncogenic viruses?
- 9 Comment on Rhizosphere.
- Differentiate between symbiotic and non-symbiotic nitrogen fixation.

SECTION - B (25 Marks!

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks ($5 \times 5 = 25$)

11 a Describe the chemical methods of sterilization.

OR

- b Discuss bacterial growth curve in brief.
- Draw a neat diagram of typical bacteria and describe the computer parts in brief.

OR

- b Explain the important characteristics of Fungi.
- 13 a Comment on host-parasite interaction.

OR

- b Write a short note on aetiology and pathogenesis of chicken pox.
- 14 a Explain plaque assay.

OR

- b Write about the characteristics of virus with examples.
- 15 a Describe sulfur cycle.

OR

b Explain the media for industrial fermentations.

SECTION - C (30 Marks!

Answer any **THREE** Questions

ALL Questions Carry EQUAL Marks ($3 \times 10 = 30$)

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- Explain the principle, instrumentation and applications of electron microscope.
- Discuss the life cycle of yeasts.
- Describe the aetiology, pathogenesis and prevention of TB.
- Explain the life cycle and importance of T4 phage.
- 20 OlQCllQQ tllP trpotmpnt