

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019  
(Fifth Semester)

Branch - MICROBIOLOGY

**CORE ELECTIVE - I: ANTIMICROBIALS AND CHEMOTHERAPY**

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks)**

Answer ALL questions

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

- 1 Antibiotics.
- 2 Salvarsan.
- 3 Aminoglycoside antibiotics.
- 4 Triphenyl Methane Drug.
- 5 Iodophore.
- 6 Sulfa Drugs.
- 7 MIC.
- 8 Bacteriemia.
- 9 Mcfarland standard.
- 10 R.Plasmids.

**SECTION - B (25 Marks!)**

Answer ALL Questions

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

- 11 a Explain the characteristics of broad spectrum antibiotics.  
OR  
b Discuss on the contributions of Howard Florey.
- 12 a Describe the Phenol co efficient test in detail.  
OR  
b Give a detailed note on bactericidal property of phenol.
- 13 a Discuss about the Antiviral drugs and their mode of action.  
OR  
b Explain about the Quinolones.
- 14 a Describe Kirby Bauer test and its purpose.  
OR  
b Write a note on anti mycobacterium drugs and their mode of action.
- 15 a Describe the cylinder plate technique.  
OR  
b Discuss on MRSA.

**SECTION - C (30 Marks)**

Answer any THREE Questions

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

- 16 Write a brief account on discovery of penicillin.
- 17 Discuss on the applications and mode of action of Halogen.
- 18 Discuss on Anti tumor antibiotics and their mode of action.
- 19 Define UTI. Mention the types of antibiotics used to treat UTI.
- 20 Explain in detail about the mechanism of drug resistance.