

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

**BSc DEGREE EXAMINATION DECEMBER 2017
(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 Alexander Fleming.
- 2 Narrow spectrum antibiotic.
- 3 Disinfectant.
- 4 Phenol - coefficient test.
- 5 ■ Macrolides.
- 6 PABA.
- 7 Quinine drugs.
- 8 MIC.
- 9 Super bug.
- 10 MDR.

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a Explain the historical development of antimicrobial chemotherapy.
OR
b List out the general characteristics of antimicrobial drugs.
- 12 a Discuss the mode of action of any three chemical agents.
OR
b Explain the mode of action of quaternary ammonium compounds.
- 13 a Write an account on sulpha drugs and its mechanism of action.
OR
b Illustrate the antifungal drugs.
- 14 a Comment on antiheilmithic drugs.
OR
b Explain the drugs for mycobacterial disease.
- 15 a Explain the mechanism of drug resistance.
OR
b How will you control the spread of resistance?

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Explain the factors influencing the effectiveness of antimicrobial drugs.
- 17 Write about the various disinfective agents used.
- 18 Describe any five antibiotics with their mode of action.
- 19 Illustrate Kirby Bauer method of antibiotic sensitivity test for antimicrobial agents.
- 20 Describe the origin and transmission of drug resistance.

Z-Z-Z

END .