PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS) jp*

BSc DEGREE EXAMINATION MAY 2017
. (Fifth Semester)

Branch - **MICROBIOLOGY**

. CORE ELECTIVE ! ANTIMICROBIALS & CHEMOTHERAPHY

Time : Three Hours Maximum : 75 Marks

SECTION-A *(20* Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks (10 x 2 = 20)

Write a note on the following:

1 Narrow spectrum drugs.
2 Define MIC, MLC.
3 Give two examples of heavy metals.
4 Phenol co-efficient test.
5 Write any two examples of antifungal drugs.
6 Chloramphenicol.
7, Kirby-Bauer test.
8 Bacteremia.
9 Define MDR.
10 Resistance transfer factor.

SECTION - B (25 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a Explain the development of chemotherapy.
OR
b Write the factors influencing the effectiveness of antimicrobial drugs.

12 a Discuss the mode of action of alcohols and halogens.
OR
b Write the mode of action and applications of phenols.

13 a Write notes on antiviral drugs.
OR
b Explain the mechanism of tetracyclines.

14 a Comment on protozoan drugs.
OR
b Describe any five antibiotics with their mode of action for urinary tract infections.

15 a Write a note on multi drug transporters.
OR
b How to control the spread of resistance?

SECTION - C (30 Marks)
Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16 Describe the general characteristics of antimicrobial drugs.
17 Give a elaborate note on phenol co-efficiency test.
18 Describe the mode of action of cell wall synthesis inhibiting antibiotics.
19 Explain the antimicrobial susceptibility test.
20 Describe the origin and transmission of drug resistance.