

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018
(Third Semester)

Branch - APPLIED MICROBIOLOGY

CORE ELECTIVE : I - PHARMACEUTICAL MICROBIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION -A (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 1 a Briefly describe about different types of chemical bonds.
OR
b What is isotopes? Add note on its uses in medical field.
- 2 a Briefly explain about antifungal agents and their mode of actions.
OR
b List out the ideal characters of wonder drugs.
- 3 a Comment on drug interactions and its merits & demerits.
OR
b Give an brief account on biotransformation.
- 4 a Mention the names of five medicinal plants and their uses.
OR
b Briefly explain about biological screening of drugs purity.
- 5 a What is drug antagonism? Add note on ADRs with examples.
OR
b List out any five drugs used for common ailments and their mode of actions.

SECTION -B (45 Marks)

Answer any THREE questions

ALL questions carry EQUAL Marks (3 x 15 = 45)

- 6 Describe in detail about determining the stoichiometry of chemical reactions.
- 7 Discuss in detail the structure, mode of action of tetracycline and its side effects.
- 8 Explain, in detail the routes of drug administration and volume of distribution.
- 9 How will you evaluate drug safety and its biomedical potential? Explain in detail.
- 10 Comment on broad spectrum, narrow spectrum antibiotic with special reference to any three.