

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022
(Third Semester)

Branch – APPLIED MICROBIOLOGY

**DISCIPLINE SPECIFIC ELECTIVE – I : PHARMACEUTICAL
MICROBIOLOGY**

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

- 1 Which of the following molecules can form a hydrogen bond with hydrogen?
(i) Sodium (ii) Oxygen
(iii) Aluminum (iv) Rubidium
- 2 Antibiotic are used to treat infection by?
(i) Virus (ii) Bacteria
(iii) All the microorganisms (iv) None of the above
- 3 Following are the phase I reactions except?
(i) Oxidative reaction (ii) Hydrolytic reaction
(iii) Reductive reaction (iv) Sulphide reaction
- 4 Which of the following are not correct on the basis of clinical trials?
(i) Biomedical research (ii) Behavioral research
(iii) Studies on human subjects (iv) Study based only on animals
- 5 Which one of these is genetically determined adverse drug reaction?
(i) Addication (ii) Tertogenecity
(iii) Carcinogenecity (iv) Idiosyncrasy

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a Write a short notes on atomic orbital theory.
OR
b Explain about the Electrophile.
- 7 a Details account on medically importance of parasitic disease.
OR
b Explain about the Tetracycline.
- 8 a Describe the excretion of drug.
OR
b Explain about the ED50.
- 9 a Write a short notes on purification procedures for drug.
OR
b Explain about the drug safety.
- 10 a Write a short notes on drug synergism and it's types.
OR
b Describe the latrogenic disease.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Give an account of chemical bonds.
OR
b Explain in details about determining the Stoichiometry of chemical reactions.
- 12 a Describe in details about the sulphonamides.
OR
b Write an details about the quality for medicines and formulation.
- 13 a Explain in details about routes of drug administration.
OR
b Describe in details about principles of toxicity.
- 14 a Write an short notes on Indian medicinal plant and trees.
OR
b Describe the details about adverse drug reaction.
- 15 a Explain in details about medicinal importance of magnesium and iron.
OR
b Write an details account on board and narrow spectrum drugs

Z-Z-Z

END