

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023
(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 Number of valence electrons in carbon is?
(i) 2 (ii) 4
(iii) 3 (iv) 5
- 2 At normal pH penicillin remains in?
(i) Aqueous phase (ii) Solvent phase
(iii) Both (a) and (b) (iv) Precipitation
- 3 What is bioavailability ?
(i) The time of adsorption of the drug from its dosage form
(ii) The rate of adsorption of the unchanged drug from
(iii) The time of adsorption if the unchanged drug from its dosage form
(iv) The rate of adsorption of the drug from its dosage form
- 4 What is the mechanism of drug excretion for skin excretion
(i) Active secretion (ii) Glomerular secretion
(iii) Passive diffusion (iv) Passive reabsorption
- 5 Which of the following terms does not describe an adverse drug reaction?
(i) Idiosyncrasy (ii) Anaphylaxis
(iii) Teratogenic effect (iv) Placebo effect

SECTION - B (15 Marks)

Answer ALL Questions

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

- 6 a Write a short notes on intermolecular force.
OR
b Explain about the covalent bond.
- 7 a Details account on Bacteriostatic agent.
OR
b Write a short notes on Chloramphenicol.
- 8 a Explain in brief about Bioavailability.
OR
b Write a short notes on drug interaction.
- 9 a Explain in brief about drug evaluation.
OR
b Write short notes on medical important of iron.
- 10 a Give an account on drug toxicity.
OR
b Explain in brief about drug therapy.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11 a Give an details account on basic pharamachemistry concept.

OR

b Explain about the isotopes.

12 a Explain in details about mechanism of action of penicillin.

OR

b Explain in details about determining therapeutical agent against antifungal drug.

13 a Describe in details about Excretion of drug.

OR

b Discuss in details about biotransformation reaction with suitable examples.

14 a Write an essay on Extraction and purification of drug.

OR

b Explain in details about drug evaluation and it's application.

15 a Describe in details drug development and strategy.

OR

b Write an essay on adverse drug reaction.

Z-Z-Z

END