PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

Branch - APPLIED MICROBIOLOGY

MAJOR ELECTIVE COURSE – I: PHARMACEUTICAL MICROBIOLOGY

MICROBIOLOGI		
Time: Three Hours		Three Hours Maximum: 50 Marks
		SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)
1		A bond in which atoms share a pair of electrons is? (i) Ionic bond (ii) Covalent bond (iii) Electrovalent bond (iv) Binary compound band
2		Which of the following is the most common adverse effect of amphotericin B? (i) Bone marrow suppression (ii) Hypomagnesemia (iv) Nephrotoxicity
3		Which organs will make up the peripheral compartment? (i) Lungs (ii) Liver (iii) Kidneys (iv) Pancreas
4		Which of the following is a predictable cause of most adverse drug reactions (ADRs)? (i) Nonadherence (ii) Allergic reactions (iii) Dosage issues (iv) Idiosyncratic causes
5		International average time for drug to be discovered involves. (i) 10 years (ii) 2 years (iii) 25 years (iv) 5 years
		SECTION - B (15 Marks)
		Answer ALL Questions ALL Questions Carry EOUAL Marks (5 x 3 = 15)
		Time Questions only — Questions
6	a	Write a brief note on the structure of atom. OR
	b	Explain about the Electron pair.
7	a	Briefly explain the General properties and drug actions of Sulphonamides. OR
	b	Write in short about the Quality assurance in pharmaceuticals.
8	a	Analyze the Route of drug administration. OR
	b	Evaluate the application of drug in biological fluids.
9	a	Prepare the brief concept of drug summation. OR
	b	Produce the drug regulation and development.
10		Determine the process of drug discovery pipeline. OR
	b	Discuss about the sterilization procedure and sterility assurance. Cont

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Discuss in detail about the Molecular orbitol.

OR

- b Categorize in detail about the Stoichiometry.
- 12 a Classify the therapeutical agents against medically important parasitic diseases.

OR

- b Differentiate between British Pharmacopoeia and Indian pharmacopeia.
- 13 a Create in detail about the Biotransformation reactions.

OR

- b Enumerate the Extraction and purification procedure for drugs.
- 14 a Formulate the types of drug antagonism.

OR

- b Determine the Novel drug development stratergy.
- 15 a Justify the Ethical consideration and guideline in clinical research.

OR

b Recommend the Drug regulatory agencies and safety monitoring.

Z-Z-Z

END