PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2024

(Fourth Semester)

Branch - BIOCHEMISTRY

MAJOR ELECTIVE COURSE - II BIOCHEMISTRY OF DRUGS

Time	e: 1	e: Three Hours	ee Hours Maximum: 50 Marks	
		SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks	$(5 \times 1 = 5)$	
1.		A chemical compound that affects human metabolism and diseases is called (i) poison (ii) medicine (iii) enzyme	provides cure from (iv) hormone	
2.	1	The first step in the drug discovery process is (i) Lead Modification (ii) Lead Identification (iii) Lead Validation (iv) Lead Optimization	1	
3.		The safety of the candidate drug in humans are studied in (i) Phase I (ii) Phase II (iii) Phase III (iv	y) Phase IV	
4.		Which of the following drug is an example of polyenes? (i) Amphotericin B (ii) Griseofulvin (iii) Fluconazole (iv) Miconazole		
5.		Patients with penicillin allergies are frequently allergic to antibiotics. Which one? (i) Cephalosporins (ii) Macrolides (iii) Aminoglycosides (iv) Fluoroquinolones	another class of	
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)				
		a Discuss about the drug receptor interactions. OR b Explain about the drug absorption.		
		a Illustrate the computer assisted drug design. OR b Classify the method of drug design.		
		a Discuss about the factors affecting drug metabolism. OR		
	b	b Analyze the species difference in drug metabolism.		
9.	a	a Determine the cancer chemotherapy. OR		
	b	b Explain the mode of action of Sulphonamides.		
10.		OR		
	b	b Evaluate the drug intolerance.		

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SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11.a Classify the routes of drug administration.

OR

- b Discuss about drug receptor interaction and binding forces.
- 12. a Analyze patent and Intellectual Property Rights drug design.

OR

- b Compare the Structure based drug design and Denovo drug design.
- 13.a Differentiate the Phase I and Phase II drug metabolism.

OR

- b Analyze the Role and mechanism of action of cytochrome P450.
- 14. a Determine the Metabolic antagonism by enzyme inhibition.

OR

- b Formulate the antifungal and antimalarial agents.
- 15. a Analyze the role of pharmacovigilance in ADR monitoring.

OR

b Determine the treatment of acute drug poisoning.

END