PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023

(Fourth Semester)

Branch - BIOCHEMISTRY

	<u>D</u>	ISCIPLINE SPECIFIC ELECTIVE – II : BIOCHEMISTRY OF DRUGS
Tir	ne:	Three Hours Maximum: 50 Marks
		SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks $(5 \times 1 = 5)$
1		Routes of administration other than are called parenteral. (i) intra dermal (ii) intra venal (iii) intra muscular (iv) alimentary tract
2		Ligand based drug design method developed more than 50yrs ago by &
		(ii) Chirico & Gramatica (ii) Hansch & Fijita (iv) Gramatica & Gombar
3	(Adrenaline, 5-HT and tryptamine like substances are catalyzed in oxidative deamination type of reaction occurs at (i) cytoplasm (ii) Microsomal (iii) Mitochondria (iv) non-microsomal
4	. (Biological activity of a drug can be reduced or abolished by a chemical reaction with another agent is called (i) competitive antagonism (ii) irreversible antagonism (iv) physiological antagonism
5	(Following drugs are NSAID except (i) Naproxen (ii) Diclofenac (iii) Ibuprofen (iv) Aspirin
		SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)
6	a)	Write about types of diffusion and transporters involved in drug absorption. OR
7	b)	Write about the drug binding protein acceptors.
,	a)	Write about anti-reteroviral drug reaction. Mention three drug names. OR
	b)	Brief on combinatorial chemistry with drug design.
8	a)	Explain the pathway of drug metabolism in microsomes of liver. OR
	b)	Explain reaction steps involved in Phase I drug metabolic reaction.
9	a)	Write a brief note on sulphonamides. OR
,	b)	Explain the mode of action antifungal agent. Site example.
10	a)	Write a brief note on drug intolerance. OR
	b)	Why does drug indulge allergic reaction? Explain with reaction.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a) Explain with examples drug agonist reaction.

OR

- b) Explain types of drug receptors and drug interactions.
- 12 a) Narrate types of quality of QSAR models.

OR

- b) Explain Intellectual Properties of Rights.
- 13 a) Write short note on the following:
 - i) Non-microsomal drug metabolic reaction and
 - ii) Induction of drug metabolizing enzymes

OR

- b) Narrate PHASE II drug metabolic pathway.
- 14 a) Narrate in detail demrits and merits of cancer chemotherapy.

OR

- b) Write a brief note on the following antimetabolites
 - i) Folate
- ii) Pyrimidines
- 15 a) Explain in detail adverse drug reactions.

OR

b) Define drug intolerance. Write about types of drug intolerance.

Z-Z-Z

END