PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023

(Second Semester)

Branch - BIOTECHNOLOGY

MAJOR ELECTIVE COURSE – I: PHARMACEUTICAL BIOTECHNOLOGY

	Time: Three Hours	Maximum: 50 Marks
	SECTION-A Answer ALL ALL questions carry F	questions
1	the plant?	ps to soothe the pain. Clove is which part of
	(i) stem (ii) seed	(iii) bud (iv) root
2	How are free radicals generated in the h (i) Through cytochrome P-450 system (iii) Through cytochrome P-350 system	(ii) NADPH reductase
3	Pharmacovigilance deals about (i) effects of drugs and mechanism of a (ii) analyze the risk, safety of medicine (iii) role of the drug of genome response (iv) biochemical and physiological effects	e e
4	Liposomes have half life (i) shorter (iii) intermediate	(ii) longer (iv) both (i) & (ii)
5	The characteristic property (ies) of cyto (i) pleiotropy and redundancy (iii) cascade induction and amplification	(ii) synergy and antagonism
	SECTION - B Answer ALL ALL Questions Carry	Questions
6	a Summarize the routes of drug adm OR	ninistration.
	b Comment on AYUSH and its gove	ernance.
7	a State the adverse effects of drug. OR	
	b Infer the role of cytochrome p45	0 in xenobiotic metabolism.
8	a Mention the significance of drug OR	identification.
	b Highlight the advantages of nove	l drug discovery.
		(Ant

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- 9 a Why are polymers used in drug delivery? Explain its advantages and limitations.
 - b How does pH in the body affect drug delivery? Interpret with suitable example.
- 10 a Distinguish between GLPs and GMPs.

OR

b Which proteins are used as therapeutic agent?

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Analyze the importance of herbal medicine in India.

OR

- b How do you calculate drug dosage?
- 12 a Evaluate detoxification mechanism by liver.

OR

- b Discuss the types of drug receptor interactions.
- 13 a Explain the steps involved in drug discovery.

OR

- b Describe drug toxicity.
- 14 a How are nano particles used in drug delivery? Name few examples.

OR

- b Expound enzyme activated drug delivery systems.
- 15 a Summarize the production method of probiotics.

OR

b Elaborate drug safety and assessment.

Z-Z-Z

END