PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024

(Sixth Semester)

Branch - BIOTECHNOLOGY

BIOPHARMACEUTICALS	
Tir	ne: Three Hours Maximum: 50 Marks
	SECTION-A (5 Marks)
	Answer ALL questions
	ALL questions carry EQUAL marks $(5 \times 1 = 5)$
1	Which hormone is a major contributor to symptoms of Inflammation?
	(i) Histamine (ii) Serotonin
	(iii) Leukotriene (iv) Bradykinin
2	is defined as the rate and extent of drug absorption.
	(i) Drug Elimination (ii) Drug Permenation
	(iii) Bioavaliability (iv) Drug Permeability
3	Which of the following is not a common route of drug administration?
	(i) Dissolution (ii) Intravenous
	(iii) Oral (iv) Topical
4	A term used to signify a preparation that appears identical to active drug
	preparation but has no biological activity is
	(i) Active ingredient (ii) Placebo
	(iii) Active Principle (iv) Gazebo
5	The Recombinant product of interferon is
	(i) Intron A (ii) Roferon A
	(iii) Alferon (iv) All of the above
	SECTION - B (15 Marks)
	Answer ALL Questions
	ALL Questions Carry EQUAL Marks $(5 \times 3 = 15)$
6	a. Enlist the basic principle in Drug Formulation.
	OR
	b. Enlist the Routes of Drug Administration.
7	a. Enlist the various components of Pharmacodynamics and their function.
	OR
	b. Enlist the various components of Pharmacokinetics and their function.
8	a. What is Pharmaco-vigilance and how it is done?
0	OR
	b. State different methods used for identification of Bioactive Constituents.
9	a. What is Curcumin, state its natural source and how is it important as a drug
	component?
	b. What is Vincristine, state its natural source and how is it important as a drug
	component?
10	a. Write a short note on Importance of Oils in Aroma therapy.

b. Enlist the Biopharmaceuticals from Traditional Medicine.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Discuss about the Indian System of Medicine.

OR

- b Discuss about the Classification of Drugs based on ATC System.
- 12 a. Explain the different Detoxification enzymes in Liver.

OR

- b. Explain the mechanism of Biotransformation of drugs.
- 13 a. Describe the Critical elements in Clinical Research.

OR

- b Describe about the Drug Development Cycle.
- 14 a Describe the Drug Manufacturing process for the production of Biopharmaceutical ingredients.

OR

- b. What is Good Manufacturing practice? Mention its key components.
- 15 a. Describe the production of Interferons and Cytokines.

OR

b. Discuss the importance of Biopharmaceuticals in Medicine.

Z-Z-Z

END