

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2019
(Sixth Semester)

Branch - BIOTECHNOLOGY

BIOPHARMACEUTICALS

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 Mention the sources of essential oil.
- 2 Write the procedure to identify alkaloids and flavonoids..
- 3 Define Pharmacodynamics.
- 4 How does nanocapsules are formed?
- 5 What are the compartments of drug distribution?
- 6 Define therapeutic index.
- 7 Define cell line.
- 8 What is quality control?
- 9 Give the functions of interleukins.
- 10 What is the role TNF?

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Write a short note on solvent extraction.
OR
b Give a short note on microbial and animal sources of drugs.
- 12 a Comprehend on Liposomes.
OR
b Briefly explain the intranasal drug delivery system.
- 13 a Give an overview about pharmacokinetics.
OR
b Write a brief account on the mechanism of drug absorption.
- 14 a Comment on the steps involved in drug manufacturing process.
OR
b Write a note on drug validation.
- 15 a How growth factors are produced by rDNA technology?
OR
b Discuss in short on production of interferons.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Explain the procedures to identify phytoconstituents.
- 17 Describe in detail on pharmacodynamics.
- 18 What are the factors that affect the drug absorption? Explain in detail.
- 19 Elucidate in detail on GMP.
- 20 Discuss in detail on the role of biopharmaceuticals in disease treatment.