

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
BSc DEGREE EXAMINATION MAY 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 Name any two animal sources of drugs.
- 2 How to identify saponins and phenols in plant extract?
- 3 Write the mechanism of action of any two drugs.
- 4 How does liposomes are classified?
- 5 Define bioavailability.
- 6 What is the significance of free and bound form of drugs?
- 7 How does the drugs are validated?
- 8 Define GMP.
- 9 Write the functions of interferons.
- 10 Mention any four oils used in aroma therapy.

**SECTION - B (25 Marks)**

Answer **ALL** Questions

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

- 11 a Give a short note on steam distillation.  
OR  
b Comment on plant compound EXTRACTION.
- 12 a Discuss in short on ADMET.  
OR  
b Comment on nanocapsules as drug delivery system.
- 13 a Write down the effect of food on drug absorption.  
OR  
b Give a brief account on biotransformation of drugs.
- 14 a What is the role of cell line with respect to bioreactor improvement?  
OR  
b Write a note on the importance of transgenic technology in drug production.
- 15 a Give a short note on drug formulation process.  
OR  
b Comprehend the production of interleukins.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

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

- 16 Give a detailed note on various sources of drugs.
- 17 Describe in detail on drug receptors.
- 18 Elucidate drug distribution process in detail.
- 19 Discuss in detail about the clinical trial and its significance.
- 20 Write a detailed note on rDNA vaccines.