

Exam Date & Time: 28-Sep-2020 (10:00 AM - 01:45 PM)

**PSG COLLEGE OF ARTS AND SCIENCE**

Note: Writing 3hrs: Checking & Inserting Image : 30mins

**BSc DEGREE EXAMINATION MAY 2020
(Sixth Semester)****Branch - BIOTECHNOLOGY
BIOPHARMACEUTICALS [14BTU25]****Marks: 75****Duration: 210 mins.****SECTION A****Answer all the questions.**

- 1) Define farm products. (2)
- 2) Example for bioactive constituents. (2)
- 3) ADMET-expand. (2)
- 4) What are liposomes? (2)
- 5) Biotransformation of drug-comment. (2)
- 6) Pharmacokinetics - write a note. (2)
- 7) Define bioreactor. (2)
- 8) Industrial plant design- comment (2)
- 9) What is drug formulation? (2)
- 10) Tumor necrosis factor- write a note. (2)

SECTION B**Answer all the questions.**

- 11) Write a short notes on plant and herb animals. (5)
 - a) [OR] Give a note on solvent extraction and steam distillation. (5)
 - b)
- 12) Explain drug receptor and physiological receptor. (5)

- a)
[OR] Write a short note on intra nasal spray. (5)
b)
- 13) Explain bioavailability of drug. (5)
- a)
[OR] Explain effect of food on drug absorption. (5)
b)
- 14) Explain drug manufacturing process. (5)
- a)
[OR] Write a short note on transgenic expression system. (5)
b)
- 15) Give a short note on cytokine. (5)
- a)
[OR] Give a short note on role of biopharmaceutical in treatment of disease. (5)
b)

SECTION C

Answer 3 out of 5 questions.

- 16) Discuss identification of bioactive constituents. (10)
- 17) Explain in detail about nanoparticle based delivery system. (10)
- 18) Discuss drug absorption and drug distribution. (10)
- 19) Give a detailed note on rDNA technology in manufacturing process. (10)
- 20) Discuss about blood clotting factor. (10)

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