



GIET UNIVERSITY, GUNUPUR – 765022
M. Tech. (Third Semester) Examinations, December – 2022
MPEBT3011 - Biopharmaceutical and Pharmaceutical Technology
(Biotechnology)

Time: 3 hrs

Maximum: 70 Marks

(The figures in the right hand margin indicate marks.)

PART – A

(2 x 10 = 20 Marks)

	CO#	Blooms Level
Q1. Answer all questions		
a. Define pharmacokinetics?	CO1	2
b. Write on the factors affecting the absorption of a drug?	CO1	2
c. What do you mean by plasma half-life of a drug?	CO1	1
d. How gelatine shells used in the formulation of capsules?	CO2	2
e. Define bioequivalence?	CO2	2
f. Justify the use of salicylic acid in drug preparation?	CO2	1
g. What is the role of binders in solid dosage forms?	CO3	2
h. Explain the principle of RNAi?	CO3	1
i. What are the commercially available HGFs?	CO4	2
j. Define haematopoiesis?	CO4	2

PART – B

(10 x 5 = 50 Marks)

Answer ANY FIVE questions

	Marks	CO	Blooms Level
2. a. Give an account of various factors affecting the absorption of a drug?	6	CO1	2
b. Explain on GMP?	4	CO1	1
3.a. Discuss in details on non-microsomal drug transformation?	6	CO1	2
b. Write brief notes on hepatic excretion of drug?	4	CO1	2
4. a. Enumerate the role of different excipients used for solid dosage form?	6	CO2	2
b. Enlighten the use of benzocaine in drugs?	4	CO2	1
5.a. Explain in detail on different polymers used for controlled drug delivery systems?	6	CO2	2
b. Discuss about the liposomal drug delivery system?	4	CO2	2
6. a. Explain the processes of gene therapy?	6	CO3	3
b. Write on application of gene therapy?	4	CO3	1
7.a. Explain the production of monoclonal antibodies by hybridoma technique?	6	CO3	3
b. What are the applications of monoclonal antibodies?	4	CO3	2
8. a. Describe the production of recombinant insulin using rDNA technology?	6	CO4	3
b. Explain on immunogenicity?	4	CO4	2

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