

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)

CLASS: BTECH
BRANCH: BT

SEMESTER: IV
SESSION : SP/2020

SUBJECT: BE213 PHARMACEUTICAL BIOTECHNOLOGY

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
 2. Candidates may attempt for all 25 marks.
 3. Before attempting the question paper, be sure that you have got the correct question paper.
 4. The missing data, if any, may be assumed suitably.
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			CO	BL
Q1	(a)	Describe the role of pharmaceutical biotechnology in health care.	[2]	1 2
Q1	(b)	Relate present status of information about genome in the present drug discovery program.	[3]	1,2 4
Q2	(a)	Explain the basic concepts of molecular medicine?	[2]	1,2 2
Q2	(b)	Differentiate between conventional medicine and molecular medicine.	[3]	1,2 4
Q3	(a)	Demonstrate the role of genomics in gene testing of disease.	[2]	1,2 3
Q3	(b)	Critically evaluate the role of genomics in forensics.	[3]	1,2 4
Q4	(a)	Sketch the procedures involved in first generation of rational drug design?	[2]	2,3 3
Q4	(b)	Demonstrate the major concepts of second-generation of rational drug design. Defend that it is better than first generation of rational drug design.	[3]	2,3 5
Q5	(a)	What are genetic disorders? Demonstrate it with the help of suitable example.	[2]	1 3
Q5	(b)	What are oncogenes? Sketch the conversion of proto-oncogenes in oncogenes.	[3]	2,3 3

:::::: 04/03/2020 :::::E