CLASS: BTECH   SEMESTER : V
BRANCH: BIOTECHNOLOGY   SESSION : MO/2024

SUBJECT: BE213 PHARMACEUTICAL BIOTECHNOLOGY

TIME: 02 Hours   FULL MARKS: 25

INSTRUCTIONS:
1. The question paper contains 5 questions each of 5 marks and total 25 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates

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			CO	BL
Q.1(a)	Explain 'lac operon' as typical gene regulation model.	[2]	1	2
Q.1(b)	Draw the models for organization of eukaryotic genome starting from DNA, its coiling and super coiled structure Chromosome.	[3]	2	4
Q.2(a)	Design a pharmacophore for its antibacterial activity. Briefly describe steps.	[2]	1	6
Q.2(b)	Write your strategy for structure-based drug design.	[3]	1	6
Q.3(a)	List out different techniques for gene testing. Discuss detailed method for any one technique.	[2]	2	2
Q.3(b)	Justify, 'Pharmacogenetics is not Pharmacogenomics'.	[3]	2	5
Q.4(a)	Design steps for development of molecular diagnostics.	[2]	2	6
Q.4(b)	Mention different types of diagnostics. Discuss one type in detail.	[3]	2	2
Q.5(a)	Describe your perception regarding genetic disorders.	[2]	1	2
Q.5(b)	What do you mean by Oncogenes? Differentiate between *c-onc* and *v-onc* genes.	[3]	1	4

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