

BBC-003-1134003

Seat No. _____

M. Sc. (Biotech) (Sem. IV) (CBCS) Examination

June / July - 2021

BT - 420: Pharmaceutical Biotechnology (2016)

Faculty Code: 003

Subject Code: 1134003

Time : $2\frac{1}{2}$ Hours] [Total Marks : 70]

Instruction: Attempt any five questions

- 1 Answer the following: (Each of 02 marks) 14
 - (1) Enlist enzymes present in the HIV Virus.
 - (2) Define positional cloning.
 - (3) Enlist difference between HIV-I & HIV-II
 - (4) Define linked gene.
 - (5) Enlist the different Class of antiretroviral medicine
 - (6) Enlist the AIDS specific volunteer organization.
 - (7) Write on protein synthesis inhibitors drug.
- 2 Answer the following: (Each of 02 marks)

14

- (1) Write down mode of action of cell membrane inhibitors drug.
- (2) Define: Bactericidal.
- (3) Define: Bacterioststic.
- (4) Define: Vaccine.
- (5) Enlist Morden approaches in vaccination.
- (6) What is an antimicrobial agent?
- (7) Enlist types of drug metabolizing enzyme.
- 3 Answer the following: (Each of 07 marks)

14

- (a) Elucidate on Human Genome project
- (b) Write a note on structural and functional organization of the human genome.

4	Answer the following: (Each of 07 marks)		14
	(a)	What is DNA microarray?	
	(b)	What is Mass spectrometry? Explain briefly on MALDI techniques	
5	Answer the following: (Each of 07 marks)		14
	(a)	Explain in detail: Structure of HIV.	
	(b)	Explain the Life cycle of HIV infection in normal human host.	
6	Answer the following: (Each of 07 marks)		14
	(a)	Diagnosis of HIV infection	
	(b)	Write a note on treatment of HIV infection.	
7	Answer the following: (Each of 07 marks)		14
	(a)	Write on the phases of drug metabolism	
	(b)	Comment on interrelationship between genes, drugs	
		and race.	
8	Answer the following: (Each of 07 marks)		14
	(a)	Write on genetic polymorphism in drug metabolism.	
	(b)	Write a note on Drug toxicity	
9	Answer the following: (Each of 07 marks)		14
	(a)	Write a note on various antibacterial agents and mode of actions.	
	(b)	Describe various classes of antibiotics with their mode of action.	
10	Answer the following: (Each of 07 marks)		14
	(a)	Write a detailed note on types of vaccines.	
	(b)	Elaborate on the antibiotics affecting cell-wall synthesis?	
		Explain any one of β -lactam Antibiotics with suitable example.	