

DN-003-1134003 Seat No. _____

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

March - 2022

BT-420: Pharmaceutical Biotechnology (2016)

Faculty Code: 003 Subject Code: 1134003

Time : $2\frac{1}{2}$ Hours]

[Total Marks: 70

Answer the following (Each of 02 marks) 1

14

- (1) Define: Bactericidal.
- Define: Vaccine. (2)
- Enlist enzymes present in the HIV Virus. (3)
- Define positional cloning. (4)
- Enlist difference between HIV-I & HIV-II.
- (6)Enlist types of drug metabolizing enzyme.
- (7)Define linked gene.
- Enlist different class of antiretroviral medicine. (8)
- Enlist the AIDS specific volunteer organization.
- (10) What is an antimicrobial agent?
- 2 Answer the following (Any two out of three, each of **07** 14 marks)
 - Write a note on structural and functional organization of the human genome.
 - What is Mass spectrometry? Explain briefly on MALDI (b) techniques.
 - What is DNA microarray?

3	Ans (a) (b)	wer the following (Each of 07 marks) Write a note on treatment of HIV infection. Explain the Life cycle of HIV infection in normal human host.	1 4
		OR	
3	Answer the following (Each of 07 marks)		1 4
	(a)	Explain in detail: Structure of HIV.	
	(b)	Diagnosis of HIV infection.	
4	Answer the following (Each of 07 marks)		14
	(a)	Write on genetic polymorphism in drug metabolism.	
	(b)	Comment on interrelationship between genes, drugs and race.	
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5		Answer the following:	
	(Any	y two out of four, each of 07 marks)	
	(a)	Write a note on various antibacterial agents and mode of actions.	
	(b)	Elaborate on the antibiotics affecting cell-wall synthesis.	

Write a detailed note on types of vaccines.

Describe various classes of antibiotics with their mode

2

(c)

(d)

of action.