		Reg. No. :													
	Question Paper Code: UD306														
B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024															
Professional Elective															
	Biotechnology														
21BTV306- MOLECULAR THERAPEUTICS AND DIAGNOSIS															
(Regulations 2021)															
Duration: Three hours Maximum: 10										0 Marks					
Answer All Questions															
		PART A	x - (10	0 x 2	= 20) Ma	rks)								
1.	State the evolutionary growth of medicine level based on the periodic analysis of CO2-Ap the medicine history ?											pp			
2.	Define about the concept of mechanism involved in the infectious process?												CO1- U		
3.	"An accurate interpretation of the modern techniques introduction in the CO2-App bacterial infection has created its beneficial impact in the medicine field"-Justify the following statement is correct or not													р	
4.	Write note about the coliform infection's conventional diagnosis.									CO1- U					
5.	Highlight the factors creating the plaque in the endothelial cells of artery parts of human body									s of	CO2-App				
6.	Write the significant effect of the lung infection histoplasmosis?									CO1- U					
7.	Define the process of Targeted therapy drugs of cancer cells?										CO1- U				
8.	What are the advantages of Targeted drug delivery system?									CO1- U					
9.	Sketch out the instrumentation protocol of commonly used probes in fluorescence in situ hybridization (FISH)?								nce	CO2-App					
10.	Write a note on DNA Microarray and its types?									CO1- U					
		PAR	$\Gamma - B$	(5 x	16=	80 N	Mark	s)							
11.	(a) Summarize a de diseases and mod	tailed description	on ab ion f	out or the	the j e info	princ ectio	iples us ag	s of gents	infec s	tious	5 (CO1-	- U	(1	6)

- (b) Describe in detail about the chronic, genetic condition that causes CO1-U (16) patients to produce thick and sticky mucus, inhibiting their respiratory, digestive, and reproductive systems with statement of disease diagnosis are also be highlighted.
- 12. (a) Illustrate the concept of mechanism that underlies the clinical CO3-Ana (16) diagnostic procedure for patients infected with viruses, emphasizing the use of antibiotics to treat the alterations that arise in the human system.

Or

- (b) Distinguish the mechanism that underlies in the clinical diagnostic CO3-Ana (16) procedure for patients infected with hepatitis and pox viruses as well as justify the use of antibiotics to treat the alterations that arise in the human system
- 13. (a) Describe the prediction with the modern technique of metabolic CO1-U (16) syndrome diabetes mellitus with diagrammatic representation

Or

- (b) Explain in detail about the process which determines the coagulant CO1- U (16) pathway in the biological injury process
- 14. (a) Illustrate a report on types of targeted therapy with illustrations, CO2- App (16) advantages and disadvantages.

Or

- (b) Distinguish the various parameters involved in the active and passive CO2- App (16) targeting design
- 15. (a) RT-PCR has undergone tremendous advances over the past few CO2- App (16) years, and technologies have noticeably matured. Discuss in detail

Or

(b) Demonstrate the report of the methodologies for the detection of CO2- App (16) single-copy DNA by flow cytometry with the incorporation of signal amplification technologies