Seat No.:	
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## **MM-127**

## March-2019

## B.Sc., Sem.-VI

## 307 : Biotechnology (Health Biotechnology)

Tim	e: 2:	30 Ho	ours] [Max. Marks	: 70
1.	(A)		uss in detail different modes of transmission and control of infectious uses giving suitable examples.	14
			OR	
		(i)	Explain how different cell components contribute to the pathogenicity of pathogen.	7
		(ii)	State Koch's Postulate and exceptions therein. How these exceptions are resolved?	7
	(B)	Ansv	wer the following: (Any <b>four</b> )	4
		(i)	What is meaning of lysogenic conversion?	
		(ii)	Define Analytical Epidemiology.	
		(iii)	What are superantigens?	
		(iv)	Define ID <sub>50</sub> .	
		(v)	Give example of Pandemic disease.	
		(vi)	What is prodromal period of a disease?	
2.	(A)	Expl	ain how molecular genetics can help in diagnosis of cancer.	14
			OR	
		(i)	Explain ELISA technique and its application in disease diagnosis.	7
		(ii)	Discuss principle of PCR and its application in diagnosis of diseases.	7
	(B)	Ansv	wer the following: (Any <b>four</b> )	4
		(i)	Give full form of RFLP.	
		(ii)	Give the principle behind DNA fingerprinting.	
		(iii)	What are DNA probes ?	
		(iv)	Name two diseases that can be diagnosed using Western blotting.	
		(v)	Give two applications of HLA typing.	
		(vi)	Define Bioinformatics.	
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3.	(A)	Wha	t are therapeutic proteins? Discuss uses of Stomatostatin, HGH and INF.	14
			OR	
		(i)	Discuss the use of monoclonal antibodies as a therapeutic agent.	7
		(ii)	Write a note on recombinant vaccine and their application in control of diseases.	7
	(B)	(B) Answer the following: (Any three)		3
		(i)	Give example of enzyme deficiency disease.	
		(ii)	What are DNA vaccines ?	
		(iii)	Give the full form of GCSF.	
		(iv)	Haemophilia A is caused by deficiency of which clotting factor?	
		(v)	Name an anticancer drug.	
4.	(A)	Writ	e a detailed note on Biological weapons including examples.	14
			OR	
		(i)	Explain in detail pathogenesis and diagnosis of AIDS.	7
		(ii)	Write a detailed note on Malaria.	7
	(B)	Ansv	wer the following: (Any three)	3
		(i)	List any two emerging infectious diseases.	
		(ii)	What is SCID?	
		(iii)	Give any two methods for management of thalassemia.	
		(iv)	Name any two autosomal recessive diseases in humans.	
		(v)	Define metastatis.	

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