

## W Semester B. Sc. E. 8 – TRA9 , September 2020

	DESCRIPTION OF THE PARTY OF THE	
Answe six ma	er <b>any nine</b> of the following questions. <b>Each</b> question carries arks.	(9×6=54)
,	Describe the industrial production of biofuels.  How is pure culture isolated by dilution plating method?	(4+2)
	Explain the mechanism of action of alcohol in sterilization. What is lyophilization?	(4+2)
,	Explain different ways of measuring microbial growth. What is solid state fermentation?	(4+2)
(8)=	Write the principle of northern blotting. Mention any two applications of blotting.  Mention any two types of PCR.	of (4+2)
17. a)	Describe the principle and application of FISH.  Give the advantages of ELISA.	(4+2)
18. a)	Mention the principle and application of autoradiography.  What are primers?	(4+2)
,	Explain the mechanism of humoral immune response.  Mention the role of mast cells and dendritic cells.	(4+2)
	Explain the physiological role of MHC proteins. What are vaccines? Mention its types.	(4+2)
,	Describe the mechanism of type I hypersensitivity.  Mention any two functions of IgM.	(4+2)
	Describe the phagocytic mechanism of innate immune response.  Mention the origin of T and B lymphocytes.	(4+2)
23. a) b)	Describe the selection of transformants by colony hybridization.  Give the role of DNA polymerase in RDT.	(4+2)
,	Outline the construction of cDNA libraries. What are cosmids?  KGF - 563 122	(4+2)
	Explain the features of an ideal host.  Mention the tools used in recombinant DNA technology.	(4+2)



## VI Semester B.Sc. Examination, September 2020 (CBCS) (F+R) (2016-17 and Onwards) BIOCHEMISTRY – VIII

Time: 3 Hours Max. Marks: 70

Instructions: i) This question paper has two Parts: Part - A, Part - B.

ii) Answer any eight questions from Part - A.

iii) Answer any nine questions from Part - B.

## PART - A

Answer any eight of the following. Each question carries two marks. (8×2=16)

- 1. How does dry heat bring about sterilization?
- 2. Give two advantages of fed batch culture.
- 3. What is immobilization of microbes?
- 4. Mention any two methods of microbial preservation.
- 5. What is hybridization? Mention its types.
- 6. Give any two applications of microarrays.
- 7. Write the principle of immunoelectrophoresis.
- 8. What is agglutination reaction?
- 9. Define antigenicity and immunogenicity.
- 10. What is insertional inactivation?
- 11. Comment on attenuated vaccine.
- 12. What is electroporation?

