RDAR Rothama

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USN	1/2			15BT34
		Third Semester B.E. De	egree Examination, Dec.20	017/Jan.2018
			Microbiology	(6)
Tin	ie: (3 hrs.		Max. Marks: 80
	I	Note: Answer any FIVE full que	estions, choosing one full question	from each module.
				\wedge
1	a. b.	Define Microbiology and Recal Summarize the notable contribu	Module-1 Il various basic and applied areas of ations of five researchers in the gold	en age of microbiology.
				(08 Marks)
			OR O	
2	a.		een Prokaryotics and Eukaryotes.	(08 Marks)
	b.	Outline the general features of S	Spirochetes and Rickettsiae.	(08 Marks)
		No. access	Module-2	
3	a.	Demonstrate the working princi	iple of phase contrast microscope w	ith neat labeled sketch.
	h			(08 Marks)
	b.	staining.	nniques and also discuss Endospor	re staining and Acid fast (08 Marks)
			Q "	(00 Marks)
		***	OR ○ S	
4	a.	Illustrate the working principle of Transmission Electron Microscope, with a neat labeled diagram.		
	b.	_	fferent types of sterilization using c	(08 Marks) hemicals. (08 Marks)
			SV pos or see Common assing of	(vo marks)
-			Module-3	
5	 a. Summarize microbial growth and microbial growth curve. b. Classify various metabolites, explain how they are produced with suitable examples. 			(08 Marks)
	υ.	Classify various inetabolites, ex	plant now they are produced with s	(08 Marks)
6	a.	Infer on various physical condit	OR cions required for growth of micro	200000000000000000000000000000000000000
U	b.		ed and steps in glycolysis with the h	
				(08 Marks)
			Module-4	
7	a.	Contrast the causative organism	m, symptoms, route of infection,	laboratory diagnosis and
		treatments for tuberculosis.		(08 Marks)
	b.		ism, symptoms, route of infection,	The state of the s
		treatments for hepatitis.		(08 Marks)
			OR	
8	a.		m, symptoms, route of infection,	laboratory diagnosis and
	 L	treatments for plague.	nala in diskati	(08 Marks)
	b.	Demonstrate the malarial life cy	cie in detail.	(08 Marks)

Module-5

- Explain the importance of Biofertilizers, with a note on VAM and Rhizobium, (98 Marks) (08 Marks)
 - b. Outline the steps in sewage disposal and application of micro organisms.

OR

- Assess the role of various biogeochemical cycles in environment. Conclude your answer 10 with the help of Nitrogen cycle. (08 Marks)
 - b. Explain the production of penicillin by the application of microorganisms. (08 Marks)