Seat No.:	
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DH-102

December-2013

B.Sc. Sem-I

CC-3: Microbiology (Paper-101)

Time: 3 Hours] [Max. Marks:			
Instruction: All questions carry equal marks.			
1.		cuss: (any two)	14
	(1)	Any two experiments proving theory of Biogenesis.	
	(2)	Contribution of Joseph Lister in the field of Microbiology.	
	(3)	Koch's postulates.	
	(4)	Work of serge Winogradsky in the field of soil microbiology.	
2.	Writ	te note on : (any two)	14
	(1)	Habitats of Microorganisms.	
	(2)	Distinctive features (general characters) of Bacteria.	
	(3)	Fungi	
	(4)	Acellular Organisms	
3.	Desc	cribe in detail : (any two)	14
	(1)	Branches of Microbiology.	
	(2)	Type of work performed by Microbiologist.	
	(3)	The basic steps of Genetic Engineering.	
	(4)	Streak plate method for isolation of Bacteria.	
4.	Writ	te in detail : (any two)	14
	(1)	How does Electron Microscope differ from light microscope ?	
	(2)	Fluorescence Microscope	
	(3)	Steps involved in Gram's staining and importance of each step.	
	(4)	Note on Endospore staining and cellwall staining.	
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5.	Write answer in one word or one sentence :	
	(1)	Who has suggested the use of agar agar powder as solidifying agent?
	(2)	Define Fermentation.
	(3)	What do you mean by Antibiosis and Antibiotic?
	(4)	What are Lichens?
	(5)	What is the difference between Viroids and Prions?
	(6)	Define Protoplasm.
	(7)	What is Phycology?
	(8)	What is Mutualism ?
	(9)	Define Nitrogen Fixation.
	(10)	Relation between NA and resolution.

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(13) Full form of ITCC.(14) Define Lyophilization.

(12) Difference between dye and stain.

(11) Function of condenser in light microscope.

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