D 53513	(Pag		2) N	Name			
			R	Reg. No			
FIRST S	SEMESTER B.Sc. DEGRI	EE I	EXAMINATIO	N, JANUARY 2014			
	(U.G	CC	SS)				
	Core Course	—М	icrobiology				
MB IB 01—GENERAL MICROBIOLOGY							
Time: Three Hour	rs			Maximum: 30 Weightage			
I. Answer all	twelve questions. Choose the con	rrect	answer:				
1 Theory	of abiogenesis was disproved l	y:					
(a)	Winogradsky.	<b>(b)</b>	Walksman.				
(c)	Pasteur.	( <b>d</b> )	Robert Koch.				
2 Which of the following is the method of determining viable count of a bacterial suspension?							
(a) '	Turbidity measurement.	<b>(b)</b>	Using coulter cou	inter.			
(c)	Breed method.	<b>(d)</b>	Plate count.				
3 Which	of the following antibiotic inhib	oits F	Peptidoglycan synt	hesis ?			
(a)	Streptomycin.	<b>(b)</b>	Erythromycin.				
(c)	Tetracyclines.	<b>(d)</b>	Vancomycin.				
4 Spores of which bacterium is used as dry heat sterilization control:							
(a)	Bacillus anthracis.	<b>(b)</b>	Bacillus stearoti	hemophilus.			
(c)	Clostridium tetani.	( <b>d</b> )	Clostridium per	fringens.			
Answer th	ne following :						
5 Scienti	ist who invented microscope.						
6 The m	ethod of 'intermittent sterilizati	on' a	nt 100°C.				
7 The m	edia used to grow bacteria wh d.	ich a	re exactly in their	r nutritional requirements are			
8 The ba	acterial forms developing in pre	sence	e of penicillin in th	e medium.			
Fill in the	blanks :						
9 The m	norphological units of capsid are	e call	ed .———				
10 Dimor grow	rphic fungi can occur as filamer vth.	ıts or	as ————	- depending on the conditions of			
				Turn over			

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	11	granules in bacteria stain with Suden Black.		
	12	In Bacillus anthracis capsule is made up of		
II.	Ans	wer all <i>nine</i> questions.	(12 x	= 3 weightage)
	Cor	nment on		
	13	Pleomorphism.		
	14	Bacteriophages.		
	15	Actinomycetes.		
	16	Flagellin.		
	17	Sex pili.		
	18	Albert staining.		
	19	Kanamycin.		
	20	Nystatin.		
	21	R.C.M. medium.		
III.	Wri	te short notes on any <i>five</i> :	(9 x 1	= 9 weightage)
	22	Penicillins.		
	23	Spread plate cultures.		
	24	Bacterial spore staining.		
	25	Dark field microscopy.		
	26	Koch's postulates.		
	27	Differences between eukaryotes and prokaryotes.		
	28	Filter sterilization.		
IV.	Ansv	ver any <i>two</i> out of three :	(5 x 2 =	= 10 weightage)
	29 1	Describe the different types of microscopy employed in Microbiology.		
	30 1	Describe the different staining techniques in Microbiology.		
	31 1	Describe the mechanisms of action of antibiotics.		
			(2 x 4	= 8 weightage)