Total No. of Questions : 5]						SEAT No.:			
P385				[5115]-1' F.Y. B.Sc CROBIOL	[Total No. of Pages : 2				
Introduction to Microbiology (New Course - 2013 Pattern) (Paper - I)									
Time: 3 Hours] Instructions to the candidates: 1) All questions are compulsory. 2) Draw neat labelled diagrams wherever no 3) Figures to the right indicate full marks.						[Max. Marks : 80			
Q1) At	tempt	the fo	ollowing:			[16]			
a)	Ma	tch th	e following:						
	i)	Lou	iis Pasteur		1)	Animal cules			
	ii)	Jose	eph Lister		2)	Pasteurization			
					3)	Surgical Antisepsis			
b)	Naı	Name two Gram negative bacteria.							
c)	Det	Define-Base. Give two examples.							
d)	Wr	Write two functions of pili in bacteria.							
e)	Naı	Name any two aminoacids in proteins.							
f)	f) State true or false:								
	i)	Glu	cose is a diasa	ccharide.					
	ii)	Pho	sphodiester bo	nds are pre	sent	in carbohydrates.			
g)	Fill	in the	e blanks:						
	i)		is a norm	nal flora of l	num	an body			
		1)	Rhizobium		2)	E.coli			
		3)	Pseudomonas	<u>S</u>	4)	None of the above			
	ii) was the first to introduce the process of immunization.								
		1)	Robert Hook		2)	Fransisco Redi			
		3)	Edward Jenne	er	4)	None of the above			

h) Name any two human diseases caused by viruses.

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Q2)	Writ	te Short Notes on Any Four of the following:	[16]
	a)	Germ theory of disease.	
	b)	Plasmids.	
	c)	Covalent bonds.	
	d)	Food & Dairy Microbiology.	
	e)	pH & Buffers.	
	f)	Chemotherapy.	
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<i>Q3</i>)	Atte	empt <u>Any Four</u> of the following:	[16]
~	a)	What is abiogenesis? Explain spontaneous generation theory.	
	b)	What are cell inclusions? Explain metachromatic granules.	
	c)	Write functions of polysaccharides.	
	d)	Explain the structure of triglycerides.	
	e)	Write about discovery of microscope.	
	f)	Write general characters of fungi.	
<i>Q4)</i>	Atte	empt <u>Any Two</u> of the following:	[16]
~	a)	Explain the contribution of Louis Pasteur in Microbiology.	
	b)	Give the morphological characters of algae & add a note on their econimportance.	omic
	c)	What are bio-inoculants? Discuss the role of various microorganis agriculture.	ms in
	d)	With a neat labelled diagram, explain Redi's three jar experiment.	
Q5)	Atte	empt Any One of the following:	[16]
	a)	With a neat labelled diagram explain composition, structure and fund of bacterial flagella.	ctions
	b)	What are nucleic acids? Explain in detail structure, types of function	ons of

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RNA.

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