C.U.SHAH UNIVERSITY Winter Examination-2018

Subject Name : Scope and Applications of Microbiology

	Subject Code : 4SC01SAM1			Branch: B.Sc. (Microbiology)			
	Semester	Date : 1	3/12/2018	Time : 02:30 To 05:30	Marks : 70		
	 Instructions: (1) Use of Programmable calculator & any other electronic instrument is prohibited. (2) Instructions written on main answer book are strictly to be obeyed. (3) Draw neat diagrams and figures (if necessary) at right places. (4) Assume suitable data if needed. 						
Q-1		Attempt the followi	ng questions:			(14)	
Atte	 a) What are Microbes? b) Lymph node is part of immune System. True/false c) Define : Microbiology. d) discovered structure of DNA. e) scientist had coined the term Microbiology. f) Give any two example of archea group organisms. g) HIV is causative agent of AIDS. True/false h) What is Decomposition? i) Give any two example of microbes used as a Bio control agent. j) T.B is caused by k) Define : Mycology. l) Dark field microscopy is used for live, unstained biological samples. True/falm) Define : Immunology. n) Give any two example of symbiosis type of interaction. 				es. True/false	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
Q-2	a) b)	Attempt all question What are Electron M Brief note on contrib	icroscope? Explain	its types with application. of Golden Era		(14) (7) (7)	
Q-3	a)	different parts .	re of Compound	Microscope and give fu		(14) (7)	
Q-4	b) a)	Attempt all question	ns	imensalism with suitable ex ight field Microscope.	amples. Page 1 o	(7) (14) (4)	



	b)	Write a short note on Immunity and its types.	(7)
	c)	What are general characteristics of Virus.	(3)
Q-5		Attempt all questions	(14)
	a)	What is Sterilization? Explain with example of Autoclave.	(7)
	b)	Give details about contribution of Louis Pasteur, Antony von Leeuwenhoek, Alexander Flemming, Edward Jenner and Joseph Lister.	(7)
Q-6		Attempt all questions	
	a)	Write a note on Microbes as Bio control agents.	(7)
	b)	Brief note on Bacterial Diseases.	(7)
Q-7		Attempt all questions	(14)
-	a)	Write a note on general life cycle of an parasite with labeled figure.	(6)
	b)	Enlist general characteristics of Bacteria.	(3)
	c)	Differentiate between SEM and TEM.	(5)
Q-8		Attempt all questions	(14)
-	a)	Write a note on Hot Air Oven and Filtration method of Sterilization.	(7)
	b)	List out organs/parts of body playing role in Immune System.	(3)
	c)	Enlist Viral Disease with its causative agent and Mode of Transmission.	(4)

