PARUL UNIVERSITY FACULTY OF APPLIED SCIENCE M.Sc..Winter 2018-19 Examination

	WI.SC., Whiter 2018-19 Examination			
			Date: 05/12/2018 Time: 10:30 am to 1:00 pm	
Subject Name: Microbiology Total Marks: 60			Total Marks: 60	
Instructions:				
1. All questions are compulsory.				
2. Figures to the right indicate full marks.				
	3. Make suitable assumptions wherever necessary.			
	4. Start new question on new page.			
4. 5	lan.	iew question on new page.		
0.1	•)		(09)	
Q.1.	A)	Essay type	(08)	
		How can microorganisms be classified on the basis of morphological, physi	ological, metabolic	
0.1	D)	and ecological characteristics?		
Q.1.	R)	Answer the following questions (Any two)		
		(a)Brief note	(04)	
		1. Botulism		
		2. Salmonellosis		
		(b) Differentiate between gram positive and gram negative bacteria	(04)	
		(c) Enlist the general characteristics of molds	(04)	
Q.2.	A)	Answer the following questions.		
		(a) Brief note	(04)	
		1. Commensalism		
		2. Predation		
		(b) Write the Economical and industrial uses of algae	(04)	
Q.2.	B)	Answer the following questions (Any two)		
		(a) Name the causative agent of:- (Each of 01 marks)	(03)	
		1. Plague		
		2. Tuberculosis		
		3. Anthrax		
		(b) Write in short about Food Preservation	(03)	
		(c) What is the role of microbes in Sewage treatment	(03)	
0.3.	A)	Essay type	(08)	
•		Describe the physico-chemical methods of Sterilization?		
0.3.	B)	Answer the following questions (Any two)		
•		(a) Define:	(04)	
		1. Pasteurization		
		2. Food Spoilage		
		(b) Describe the pathogenesis of the disease: Diphtheria	(04)	
		(c) Describe the pathogenesis of the disease: Syphilis	(04)	
0.4.	A)	Answer the following questions.		
~ ···		(a) Brief note (2x2)	(04)	
		1. Tumor Viruses		
		2. Polio		
		(b) Short note on Growth curve of bacteria.	(04)	
04	B)	Answer the following questions (Any two)	(04)	
V.) J	(a) What is the mode of transmission of:	(03)	
			(03)	
		 Dengue Rabies 		
		3. HIV (b) Explain Isolation of heateria		
		(b) Explain Isolation of bacteria.	(03)	
		(c) Short note on Capsule Staining	(03)	