PARUL UNIVERSITY

PARUL INSTITUTE OF APPLIED SCIENCES

MID SEMESTER INTERNAL EXAMINATION, Summer 2020

B. Sc. Semester II

Subject: Microbiology

(A) Transduction

Paper Code: 11101154		54	Title of the paper: Basic Principles of microbiology					
Date: 4	/3/2020		Time: 10:00 am					
Maxim	um Marks: 4	0						
Instruc	ctions:							
1.	1. All questions are compulsory and options are given in first and sec							
only.								
	 Numbers to the right of question indicate the marks of respective question. 							
		<u> </u>			1 1			
Q. 1	Δttempt an	y one question (of the following	,		(08)		
Q. 1	Attempt any one question of the following. (i) Describe the differences between the various modes of cell division					(00)		
	in bacteria							
	(ii) Explain Pure culture Techniques in detail							
	(II) Emplain	Traic carraic r	comiques in ac	··				
Q. 2	Attempt any three questions of the following.							
_	(i) Write a short note on Pasteurization.							
	(ii) Describe characteristics of an ideal disinfectant.							
	(iii)	Write a short no	ote on sterilizati	on b	by physical agents			
	(iv)	Write a short no	ote on sterilizati	on b	by chemical agents			
	(v) Short note on filtration							
Q. 3	Do as direc	ted. Attempt all	five questions.			(05)		
	(ii) Define Differential media							
	(ii) Define Enrichment media							
	(iii) Define	Synthetic medi	a					
	(iv) Define antiseptic							
	(v) Define sterilization							
Q. 4	* *		ır answer sheet	for t	following 15 multiple	(15)		
•	choice questions.							
	1							
MCQ 1	The cell re	production in b	acteria may occ	ur t	ΟV			
		1	J		•			
	(A) bina	ary fission	(B)	budding			
	(C) frag	mentation	(D)	All of the above			
	. ,		`					
MCQ 2	Q 2 Which method of gene transfer involves direct contact between the bacteria?							
		ijugation	(B		Transformation			
	` /	nsduction	$(\Gamma$		All of the above			
MCQ 3	The transfer of genetic material from one bacterium to another via virus is called							
	(A) Con	jugation	(B)	Transformation			
		nsduction	(D		None of these			
MCO 4	` /		`	_	lings by a bacterium is terr	ned as		

(B) Transformation

	(C)	Conjugation	(D)	None of these				
MCQ 5	Bacteria reproduce vegitatively by							
	(A)	Conjugation	(B)	Transformation				
	(C)	Budding	(D)	None of these				
MCQ 6	The cocci which mostly occur in pairs are							
	(A)	Streptococci	(B)	Diplococci				
	(C)	tetracocci	(D)	None of these				
MCQ 7	The cocci which forms a bunch and irregular pattern are							
	(A)	Staphylococci	(B)	Diplococci				
	(C)	Tetracocci	(D)	Streptococci				
MCQ 8	The common word for bacteria which are spherical in shape is							
	(A)	Cocci	(B)	Bacilli				
	(C)	Spirilla	(D)	Pleomorphic				
MCQ 9	contains the single species of organisms.							
	(A)	Mixed culture	(B)	Pure culture				
	(C)	Stock culture	(D)	None of the above				
MCQ 10	The bacilli which forms a chain pattern are							
	(A)	Streptobacilli	(B)	diplobacilli				
	(C)	Tetrabacilli	(D)	Streptococci				
MCQ 11	Which microorganism(s) is/are responsible for photosynthesis in the aqueous environment?							
	(A)	virus	(B)	cyanobacteria				
	(C)	algae	(D)	B and C both				
MCQ 12	Identify the term that can describe a disinfectant that can inhibit the growth of fungi:							
	(A)	Fungicidal	(B)	Fungisepsis				
	(C)	Fungistatic	(D)	Fungigenic				
MCQ 13	Which of the following is best to sterilize heat labile solutions?							
	(A)	Dry heat	(B)	Autoclave				
	(C)	Membrane filtration	(D)	Pasteurization				
MCQ 14								
	(A)	period of initial adjustment	(B)	exponential period				
	(C)	generation time	(D)	none of these				
MCQ 15	Identify the term that describes a disinfectant that can kill bacteria							
	(A)	Bactericidal	(B)	Bacteriostatic				
	(C)	Pathogenic	(D)	all of these				