PARUL UNIVERSITY

PARUL INSTITUTE OF APPLIED SCIENCES MID SEMESTER INTERNAL EXAMINATION, APRIL 2017

B. Sc./ M. Sc. Semester II/IV

B. Sc./ IVI. Sc. Semester II/IV								
- 0		Subject:		_				
Paper Co	ode: 11101251	Title of the pap	per: Medical microbio	logy				
Date: 11 /04/2017 Time: 12.30 p.m. to 02.00 p.m.								
			11me. 12.50 p.m. w 02	2.00 p.m.				
Maximum Marks: 40								
Instructions:								
1. All questions are compulsory and options are given in first and second question								
only. 2. Numbers to the right of question indicate the marks of respective question.								
2. 1	umbers to the right of que	estion mulcate the ma	1KS of respective quest	1011.				
Q. 1	Attempt any one question	of the following		(08)				
Q. I		-	a biological was an	(00)				
	(i) Give the detailed justification of Anthrax being biological weapon.							
	Ans: Any 4 justification: 4x2=8 (ii) What are the different components of blood? Write down their							
		components of blood?	write down their					
	functions							
	Ans: Table or diagram f	ormat no description	required: with their					
0.4	functions: 4+4	C.1 C 11 '		(10)				
Q. 2	Attempt any three questions of the following. (12)							
	(i) Write a short note on lab diagnosis of Cholera.							
	Ans: any 2 method : 2 marks each							
	(ii) Write a short note on S	Symptoms and Pathoge	enesis of Tetanus.					
	Ans: 2 marks each							
	(iii) Write a short note on Principles and mechanism of Blood sugar							
	test							
	Ans: 2 marks each(normal range is required)							
	(iv) Write a short note on Coomb's test							
	Ans; Principles, mechanism, significance: 1+1+2							
	(v) ABO and Rh groups with their antigen and antibody.							
	Ans: A+/A-, B+/B-, AB+	/ AB-, O+/O- with res	pective Ag and Ab					
	name							
Q. 3	Do as directed. Attempt all five questions. (05)							
	(i) What is the normal range of Bilirubin in blood?							
	(ii) What is phage typing?							
	(iii) What is the name of the plasmid found in <i>Bacillus antrasis?</i>							
	(iv) What is the causative agent of Tetanus?							
	(v) How many different kinds of strains of Vibrio can be found?							
Q. 4	Write correct option in your answer sheet for following 15 multiple (15)							
	choice questions.							
MCQ 1	Syphilis is caused by							
	(A) Moulds	(B)	Treponema palidum					
	(C) S. aureus	(D)	E. coli					

(B)

Moulds

MCQ 2

Pus-forming disease is caused by

(A) E. coli

	(C)	Treponema palidum	(D)	S. aureus		
MCQ 3	Golden colour colony can be found in					
	(A)	Staphylococcus sp	(B)	Steptococcus sp		
	(C)	Micrococcus sp	(D)			
MCQ 4	Which media is used as transport media for Cholera?					
	(A)	Venkatraman-Ramakrishna	(B)	Nacl agar medium		
		(VR)media				
	(C)	Cary- Blair media	(D)	None		
MCQ 5	CQ 5 Why Vibrio can not be found in Ganges water					
	(A)	Due to high amount of	(B)	Due to large no. of vibrioΦs		
		oxygen				
	(G)	5	(D)	5		
MGO ((C)	Due to chlorine	(D)	Due to its salinity		
MCQ 6		function tests include	(D)	G CDT		
	(A)	SGOT	(B)	SGPT		
1400 7	(C)	Alkaline Phosphatase	(D)	All of the above		
MCQ 7	Differentiate between Micrococcus sp and Staphylococcus sp can be done by					
	(A)	16S r-DNA sequencing	(B)	Catalse test		
14000	(C)	Protein A test	(D)	All of the above		
MCQ 8	Lockjaw is observed in which disease?					
	(A)	Cholera	(B)	AIDS		
	(C)	Polio	(D)	Tetanus		
MCQ 9	Anthrax is a					
	(A)	Zoonotic disease	(B)	Plant disease		
		Viral disease	(D)	All of the above		
MCQ 10		Which blood group is considered as universal acceptor				
	(A)	O+ve	(B)	AB+ve		
	(C)	O - ve	(D)	AB-ve		
MCQ 11	Which disease causative organism can not be cultivated invitro?					
	(A)	Cholera	(B)	Syphilis		
	(C)	Jaundice	(D)	Anthrax		
MCQ 12	Bacterial colitis is associated with					
	(A)	E.coli	(B)	Salmonella sp		
	(C)	Shigella sp	(D)	All of above		
MCQ 13	ACQ 13 Virulence of Bacillus anthrasis depends on					
	(A)	Toxins	(B)	Endospore		
	(C)	Capsule	(D)	Both A and C		
MCQ 14	WIDAL test is used in					
	(A)	Cholera	(B)	Syphilis		
	(C)	Typhoid	(D)	Anthrax		
MCQ 15	Which institute in India has firstly formulated Vibrio Cholerae phage typing?					
	(A)	NICED, Kolkata	(B)	IICB, Kolkata		
	(C)	SINP, Kolkata	(D)	BOSE Institute, Kolkata		