

JC-003-1016013

Seat No.

B. Sc. (Sem. VI) (CBCS) Examination

August - 2019

MB-603: Microbiology

(Clinical Diagnostic Microbiology)

Faculty Code: 003

Subject Code: 1016013

Time : $2\frac{1}{2}$ Hours] [Total Marks : 70

Instructions: (1) All questions are compulsory.

- (2) Marks for all the questions are indicated on the right.
- (3) Support your answer with suitable diagram wherever applicable.
- 1 (A) Objective type question:

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- (1) Who discovered ABO blood group system?
- (2) Define Hematopoiesis
- (3) What is Cross Matching?
- (4) State two importance of blood transfusion
- (B) Answer in brief: (Any One out of Two)

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- (1) Enlist various types of blood cells with their functions
- (2) What is Rh system? What is its importance?
- (C) Answer in brief: (Any One out of Two)

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- (1) Explain the process and significance of Hemostasis
- (2) Explain in brief the principle, significance and procedure of blood transfusion

	(D)	Write note on : (Any One out of Two)			
		(1)	Hematopoiesis		
		(2)	Separation and storage of blood components		
2	(A)	Objective type question:			
		(1)	Define Immunogen		
		(2)	Define Antibody		
		(3)	What is Precipitation Reaction?		
		(4)	Define Agglutination Reaction		
	(B)	wer in brief: (Any One out of Two)	2		
		(1)	What are Virus neutralizing antibodies?		
		(2)	Explain in brief - Neufeld quellung reaction		
	(C)	Ans	wer in brief: (Any One out of Two)	3	
		(1)	Explain fluorescent antibody technique in brief		
		(2)	Explain in brief - Complement fixation test		
	(D)	Wri	te note on : (Any One out of Two)	5	
		(1)	Intracutaneous diagnostic tests		
		(2)	Agglutination tests		
3	(A)	Obje	ective type question :	4	
		(1)	Define - Clinical specimen		
		(2)	What is ELISA?		
		(3)	Enlist various types of blotting technique		
		(4)	Name any two fluorescent dyes		

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	(B)	Ans	swer in brief : (Any One out of Two)	2
		(1)	Enlist various methods of specimen collection	
		(2)	What is Radioimmunoassay?	
	(C)	Ans	swer in brief: (Any One out of Two)	3
		(1)	Describe Immunoelectrophoresis	
		(2)	Discuss ELISA	
	(D)	Wri	te note on : (Any One out of Two)	5
		(1)	Methods for identification of microbes from clinical specimen	Ĺ
		(2)	Immunotherapy	
4	(A)	Obj	ective type question :	4
		(1)	Define Epidemiology	
		(2)	Define Mortality rate	
		(3)	What is Mycosis?	
		(4)	Define Opportunistic pathogens	
	(B)	Ans	swer in brief: (Any One out of Two)	2
		(1)	Name any one disease caused by Treponema and discuss its treatment	l
		(2)	Discuss in brief the prevention of Superficial Mycosis	l
	(C)	Ans	swer in brief: (Any One out of Two)	3
		(1)	Write a brief note on Opportunistic fungi	
		(2)	Discuss pathogenicity, diagnosis and treatment of Clostridial infections	f
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	(D)	Write note on : (Any One out of Two)		5
		(1)	Systemic Mycosis	
		(2)	Mycobacterial diseases	
5	(A)	Obje	ective type question:	4
		(1)	Define Vaccine	
		(2)	Name any two viral diseases of humans	
		(3)	Name any two protozoan diseases of humans	
		(4)	What is Triple Vaccine?	
	(B)	Answer in brief: (Any One out of Two)		2
		(1)	Briefly discuss pathogenicity of Entamoeba histolytica	
		(2)	Discuss Ebola virus in brief	
	(C)	Ans	wer in brief : (Any One out of Two)	3
		(1)	Write pathogenicity and prevention of Hepatitis	
		(2)	Briefly discuss - Swine flu	
	(D)	Wri	te note on : (Any One out of Two)	5
		(1)	Vaccines	
		(2)	HIV	