

B.Sc. Semester - 6 (CBCS) Examination**April/May-2022 (OLD COURSE)****CLINICAL AND DIAGNOSTIC MICROBIOLOGY(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

Q 1 A Objective type Questions	04
(i) Who was the discoverer of ABO blood grouping system?	
(ii) Name any one rare blood group.	
(iii) Enlist any four tests done before blood transfusion.	
(iv) Name any two commonly used blood anticoagulants.	
Q 1 B Answer in brief (Any 1 out of 2)	03
(i) Write a brief note on: Blood banking.	
(ii) Write on: Storage of plasma.	
Q 1 C Write a note on (Any 1 out of 2)	07
(i) Formation of different blood cells.	
(ii) Blood transfusion.	
Q 2 A Objective type Questions	04
(i) Name the largest immunoglobulin.	
(ii) Define: Passive agglutination.	
(iii) What is heterophile antibody?	
(iv) Define: Virulence.	
Q 2 B Answer in brief (Any 1 out of 2)	03
(i) Neufeld Quellung reaction.	
(ii) Write on: Complement fixation test.	
Q 2 C Write a note on (Any 1 out of 2)	07
(i) Intracutaneous diagnostic test.	
(ii) Evaluation of virulence.	
Q 3 A Objective type Questions	04
(i) Name an enzyme used in a standard PCR reaction.	
(ii) Enlist two molecular methods for pathogen identification.	
(iii) Name any two membranes used in blotting experiment.	
(iv) Name any two fluorescent dyes.	
Q 3 B Answer in brief (Any 1 out of 2)	03
(i) Write on: Direct ELISA.	
(ii) Write on: Microscopic methods for microbes identification from specimen.	
Q 3 C Write a note on (Any 1 out of 2)	07
(i) Methods of specimen collection.	
(ii) Immunotherapy.	
Q 4 A Objective type Questions	04
(i) Enlist two physiological features of <i>Neisseria</i> spp.	
(ii) Define: Infection.	
(iii) Which <i>Clostridium</i> species causes gas gangrene?	
(iv) Enlist species of <i>Shigella</i> .	

Q 4 B	Answer in brief (Any 1 out of 2)	03
	(i) Epidemiological markers.	
	(ii) Treatment and prevention of <i>Mycobacteria</i> infection.	
Q 4 C	Write a note on (Any 1 out of 2)	07
	(i) Pathogenicity of <i>Salmonella</i> .	
	(ii) Candida as an opportunistic pathogen.	
Q 5 A	Objective type Questions	04
	(i) Define: Vaccine.	
	(ii) What is the vector of Japanese encephalitis?	
	(iii) Enlist any three modes by which HIV can be transmitted.	
	(iv) Enlist any two viral diseases which are now eradicated from India.	
Q 5 B	Answer in brief (Any 1 out of 2)	03
	(i) Life cycle of <i>Plasmodium</i> .	
	(ii) Treatment of <i>Trypanosoma</i> infection.	
Q 5 C	Write a note on (Any 1 out of 2)	07
	(i) Write on: Modern approaches of vaccines.	
	(ii) Write on: Diagnosis and treatment of AIDS.	
