

B.Sc. Semester - 6 (CBCS) Examination**March/April-2026 (NEW COURSE)****Clinical and Diagnostic Microbiology (Core (New))****Time: 2:30 Hours****Marks: 70****Instructions:**

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

Que.1(A)	Objective type questions.	(04)
	(1) Define: hematopoiesis.	
	(2) Mention two examples of PMNs.	
	(3) Define: Leukopenia.	
	(4) ABO blood grouping system was discovered by.....	
Que.1(B)	Answer in brief (Any 1 out of 2)	(03)
	(1) Hemostasis.	
	(2) ABO and Rh human blood group system.	
Que.1(C)	Write a note on (Any 1 out of 2)	(07)
	(1) Give a detail account on separation and storage of blood components	
	(2) Describe in detail about Cross matching.	
Que.2(A)	Objective type questions.	(04)
	(1) Define: Prozone phenomenon.	
	(2) Define: Immunogen.	
	(3) Give example of fluorescent dye.	
	(4) Quellung reaction.	
Que.2(B)	Answer in brief (Any 1 out of 2)	(03)
	(1) Antistreptolysin	
	(2) Hemagglutination test.	
Que.2(C)	Write a note on (Any 1 out of 2)	(07)
	(1) Write a detail account on Detection of heterophile antibody	
	(2) Antifibrinolysin.	
Que.3(A)	Objective type questions.	(04)
	(1) Full form of ELISA.	
	(2) Define: Chromogen.	
	(3) Role of immunotherapy.	
	(4) Contribution of Rosalyn Yalow.	
Que.3(B)	Answer in brief (Any 1 out of 2)	(03)
	(1) Conventional techniques.	
	(2) Detection of pathogen by PCR.	
Que.3(C)	Write a note on (Any 1 out of 2)	(07)
	(1) Give a detail account on Radioimmunoassay.	
	(2) Immunoelectrophoresis.	
Que.4(A)	Objective type questions.	(04)
	(1) Which type of mycoses is caused by <i>Histoplasma capsulatum</i> .	
	(2) Name the serotypes and biotypes for <i>Vibrio cholerae</i> .	
	(3) Give one example of tetanus causing etiological agent.	
	(4) Give one example of microorganisms which can cause Cutaneous mycoses.	
Que.4(B)	Answer in brief (Any 1 out of 2)	(03)
	(1) Bacillary dysentery.	
	(2) Epidemiology of infectious disease:	

- Que.4(C) Write a note on (Any 1 out of 2) (07)
- (1) Discuss in detail Symptoms, mode of transmission, prophylaxis and control of the disease caused by *Treponema pallidum*.
 - (2) Opportunistic fungi – *Candida albicans*.
- Que.5(A) Objective type questions. (04)
- (1) Full form of MERS.
 - (2) Mention the name of microorganism which is responsible to cause Hepatitis virus.
 - (3) Mention the name of microorganism which can cause Leishmaniasis.
 - (4) Morbillivirus can cause Rubella. (True/False)
- Que.5(B) Answer in brief (Any 1 out of 2) (03)
- (1) Pathogenicity and diagnosis of *Giardia lamblia*.
 - (2) Pathogenicity of Polio virus.
- Que.5(C) Write a note on (Any 1 out of 2) (07)
- (1) Vaccines: Conventional and Modern approaches.
 - (2) Write a detail note on SARS.
