

B.Sc. Semester - 6 (CBCS) Examination**March/April-2024 (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.

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- Que.1(A) Objective type questions. (04)
- (1) Mention two blood group system.
 - (2) Full form of PMNs.
 - (3) Write-down one component of blood.
 - (4) Leakage of blood from capillary by mechanical damage is known as a hemostasis. (True/ False)
- Que.1(B) Answer in brief. (Any 1 out of 2) (03)
- (1) Separation of blood components.
 - (2) ABO blood grouping system.
- Que.1(C) Write a note on. (Any 1 out of 2) (07)
- (1) Discuss on haematopoiesis.
 - (2) Discuss about principle, significance and procedure of blood transfusion.
- Que.2(A) Objective type questions. (04)
- (1) Define: Antigen.
 - (2) Mention one name of the test for in vitro antigen- antibody reaction.
 - (3) Write-down one importance of Intracutaneous diagnostic test.
 - (4) Give one example of fluorescent dye.
- Que.2(B) Answer in brief. (Any 1 out of 2) (03)
- (1) Virus neutralizing antibody.
 - (2) Precipitin test.
- Que.2(C) Write a note on. (Any 1 out of 2) (07)
- (1) Antistreptolysin.
 - (2) Write a detail account on Complement fixation test.
- Que.3(A) Objective type questions. (04)
- (1) Mention any two types of advanced diagnostic techniques.
 - (2) Full form of PCR.
 - (3) Full form of RIA.
 - (4) Name one molecular method for identification of microbes.
- Que.3(B) Answer in brief. (Any 1 out of 2) (03)
- (1) Western Blot.
 - (2) Rapid methods of identification for microbes.
- Que.3(C) Write a note on. (Any 1 out of 2) (07)
- (1) Give a detail account on Detection of pathogen by PCR.
 - (2) Write-down detail note on ELISA.
- Que.4(A) Objective type questions. (04)
- (1) Define: Latent period.
 - (2) Give one example of Opportunistic fungi.
 - (3) Botulinum can cause by *Haemophilus influenzae*. (True/False)
 - (4) Superficial mycoses is caused by *Tinea pedis*. (True/False)

- Que.4(B) Answer in brief. (Any 1 out of 2) (03)
- (1) Write in brief about Bacillary dysentery.
 - (2) Typhoid fever.
- Que.4(C) Write a note on. (Any 1 out of 2) (07)
- (1) Give a detail account on Pathogenicity, diagnosis, treatment and prevention of subcutaneous mycoses.
 - (2) Symptoms, mode of transmission, prophylaxis and control of the disease caused by *Clostridium tetani*.
- Que.5(A) Objective type questions. (04)
- (1) Mention the name of microorganism which can cause Leishmaniasis.
 - (2) Mention the name of microorganism which can cause Amoebic dysentery.
 - (3) Herpes virus can cause Ebola. (True/False)
 - (4) Full form of SARS.
- Que.5(B) Answer in brief. (Any 1 out of 2) (03)
- (1) Pathogenicity and treatment of *Giardia lamblia*.
 - (2) Pathogenicity of Hepatitis virus.
- Que.5(C) Write a note on. (Any 1 out of 2) (07)
- (1) Life cycle of HIV.
 - (2) Pathogenicity, Etiological agent, Diagnosis and treatment of Malaria.
