

B.Sc. Semester - 6 (CBCS) Examination**March/April-2023 (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.
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Q.1 (A) Objective type questions**(04)**

1. Which blood group is known as universal donor?
2. Define Hematopoiesis.
3. Enlist any two differences between plasma and serum.
4. Write an importance of fibrinolysis process.

Q.1 (B) Answer in brief (Any one out of two)**(03)**

1. Explain the mechanism of blood coagulation.
2. Write clinical significance of blood transfusion.

Q.1 (C) Write a note on (Any one out of two)**(07)**

1. Give an overview of human blood group systems.
2. Briefly describe separation and use of blood components.

Q.2 (A) Objective type questions**(04)**

1. Define complement fixation test.
2. Enlist any two uses of precipitin test.
3. Write the name of the test use to detect scarlet fever.
4. What is heterophile antigen?

Q.2 (B) Answer in brief (Any one out of two)**(03)**

1. Explain antifibrinolysin test.
2. Explain Neufeld Quellung reaction.

Q.2 (C) Write a note on (Any one out of two)**(07)**

1. What is agglutination test? Describe in detail hemagglutination test.
2. Write an overview of Intracutaneous diagnostic test.

Q.3 (A) Objective type questions**(04)**

1. What is ribotyping?
2. Write the full form of RIA.
3. Write clinical significance of western blot technique.
4. Give any two examples of fluorochromes.

Q.3 (B) Answer in brief (Any one out of two)**(03)**

1. Explain immunotherapy.
2. Enlist the methods for identification of microbes from specimens.

Q.3 (C) Write a note on (Any one out of two)**(07)**

1. Describe in detail specimen collection methods.
2. Write an overview of ELISA technique.

Q.4 (A) Objective type questions**(04)**

1. Define: epizootic.
2. Enlist types of mycoses.
3. Write any two symptoms of infection caused by *Haemophilus influenzae*.
4. What is Sporadic disease?

Q.4 (B) Answer in brief (Any one out of two) (03)

1. Explain Morbidity rate and Mortality rate.
2. Explain pathogenicity of opportunistic fungi.

Q.4 (C) Write a note on (Any one out of two) (07)

1. Describe story of disease: infectious disease cycle.
2. Write pathogenicity and control of: *Mycobacterium tuberculosis*, *Clostridium tetani*.

Q.5 (A) Objective type questions (04)

1. Define reservoir host.
2. Leishmaniasis disease caused by _____
3. What is schizonts?
4. Write any two advantages of DNA vaccines.

Q.5 (B) Answer in brief (Any one out of two) (03)

1. Explain: “*Entamoeba histolytica* as causative agent of disease”
2. Explain the term Toxoid vaccines.

Q.5 (C) Write a note on (Any one out of two) (07)

1. Highlight on the whole organism vaccines.
2. Give account of pathogenicity caused by Mumps and Measles viruses.
