

B.Sc. Semester - 6 (CBCS) Examination**April/May-2022 (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.
-

Question 1**Q.1 (A) Objective type questions (04)**

1. Define Hemostasis.
2. What is Plasma?
3. What is Bombay blood group?
4. Write an example of any two anticoagulants.

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

1. Describe clinical significance of blood transfusion.
2. Discuss briefly cross matching.

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

1. Describe ABO & Rh blood system.
2. Explain the process of separation and storage of blood components.

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

1. Write the use of Tuberculin test.
2. Neufeld Quellung reactions differentiate *Pneumococci* on the basis of _____
3. What is Forssman antigen?
4. Define Precipitin test.

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

1. Explain Complement Fixation Test.
2. Discuss Fluorescent antibody technique.

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

1. Explain agglutination test
2. Write a note on evaluation of virulence

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

1. Write the full form of ELISA
2. What is Bacteriophage typing?
3. What is the use of immunoblotting in diagnostic?
4. What are the different types of specimens?

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

1. Explain briefly Radioimmunoassay
2. Describe briefly detection of pathogen by PCR

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

1. Write a note on molecular methods of identification of microbes from specimen.
2. Describe conventional methods of specimen collection

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

1. Define Epidemiology
2. *Clostridium tetani* causes _____
3. Give two examples of opportunistic fungi
4. What is transient carrier?

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

1. Explain briefly epidemiological tools.
2. Describe superficial mycoses.

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

1. Write a note on infectious disease cycle
2. Discuss pathogenicity and control of Gram negative bacteria

Question 5

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

1. Ebola virus causes _____
2. Define definitive host
3. What is zoonosis?
4. What is toxoid?

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

1. Describe pathogenicity of *Plasmodium spp.*
2. Write a note on Chikungunya.

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

1. Write a note on: MERS and SARS
2. Write a note on modern approaches of vaccines
