

B.Sc. Semester - 6 (CBCS) Examination**March/April-2024 (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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- Que.1(A) Objective type questions. (04)
- (1) Define: Hemostasis.
 - (2) Full form of PMNs.
 - (3) Bombay phenotype.
 - (4) ABO blood grouping system was discovered by
- Que.1(B) Answer in brief. (Any 1 out of 2) (03)
- (1) Blood banking.
 - (2) Procedure of blood transfusion.
- 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 hematopoiesis.
- Que.2(A) Objective type questions. (04)
- (1) Define: Precipitation.
 - (2) Mention one importance of complement fixation test.
 - (3) SYBR green is fluorescent dye. (True/False)
 - (4) Quellung reaction.
- Que.2(B) Answer in brief. (Any 1 out of 2) (03)
- (1) Antistreptolysin.
 - (2) Intracutaneous diagnostic test.
- Que.2(C) Write a note on. (Any 1 out of 2) (07)
- (1) Write a detail account on hemagglutination test.
 - (2) Describe in detail on two special serological tests.
- Que.3(A) Objective type questions. (04)
- (1) Full form of PCR.
 - (2) Mention one molecular method for identification of microbes from specimen.
 - (3) Western blot technique identify presence of common and specific proteins among different strains of microorganisms. (True/False)
 - (4) Who won the Nobel prize for the development of RIA?
- Que.3(B) Answer in brief. (Any 1 out of 2) (03)
- (1) Immunotherapy.
 - (2) Methods of specimen collection by conventional techniques.
- Que.3(C) Write a note on. (Any 1 out of 2) (07)
- (1) Give a detail account Identification of microbes by microscopy.
 - (2) Write full form of ELISA and mention detail note on it.
- Que.4(A) Objective type questions. (04)
- (1) *Clostridium tetani* is gram positive organism. (True/False)
 - (2) Name the serotype for *Vibrio cholerae*.
 - (3) Define: Epidemiology.
 - (4) Give one example of microorganisms which can cause systemic mycoses.

- Que.4(B) Answer in brief. (Any 1 out of 2) (03)
- (1) Symptoms, mode of transmission of *Mycobacterium tuberculosis*.
 - (2) Symptoms, of primary and secondary syphilis.
- 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 *Haemophilus influenzae*.
 - (2) Write a note on Cutaneous mycoses.
- Que.5(A) Objective type questions. (04)
- (1) Full form of SARS.
 - (2) Mention the name of microorganism which is responsible to cause Japanese Encephalitis.
 - (3) Mention the name of microorganism which can cause Leishmaniasis.
 - (4) Morbillivirus can cause chikungunya. (True/False)
- Que.5(B) Answer in brief. (Any 1 out of 2) (03)
- (1) Pathogenicity and diagnosis of *Entamoeba histolytica*.
 - (2) Pathogenicity of Influenza causing virus.
- Que.5(C) Write a note on. (Any 1 out of 2) (07)
- (1) Malarial parasite.
 - (2) Write a detail note on conventional and modern approaches for vaccines.
