

B.Sc. Semester - 6 (CBCS) Examination
May/June-2021 (OLD COURSE)
CLINICAL AND DIAGNOSTIC MICROBIOLOGY(CORE)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figure to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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- Q.1(A) Answer in detail (Any one) (07)**
1. Explain separation of blood components.
 2. Describe Hematopoiesis process.
- Q.1(B) Answer the following (Any one) (04)**
1. Write significance of blood transfusion.
 2. Explain cross matching.
- Q.1(C) Answer the following (Any three) (03)**
1. What is the importance of Hematopoiesis?
 2. Write the contribution of Karl Landsteiner.
 3. Write True or False: Hemostasis is a process to prevent and stop bleeding
 4. _____ are responsible for blood clotting.
 5. Which anticoagulants are used in blood bank?
- Q.2(A) Answer in detail (Any one) (07)**
1. Describe any two special serological tests
 2. Discuss complement fixation test
- Q.2(B) Answer the following (Any one) (04)**
1. Briefly explain Antifibrinolysin.
 2. Explain passive agglutination.
- Q.2(C) Answer the following (Any three) (03)**
1. Define Heterophile antibodies
 2. Tuberculin test used to determine _____
 3. Write the use of Widal test.
 4. True or False: Neutralizing antibodies indicate the presence of viruses in the host.
 5. Write the full form of ADCC
- Q.3(A) Answer in detail (Any one) (07)**
1. Describe rapid methods for identification of microbes from specimen.
 2. Explain detection of pathogen by PCR.
- Q.3(B) Answer the following (Any one) (04)**
1. Briefly explain western blot technique
 2. What is immunohistochemistry?

- Q.3(C) **Answer the following (Any three)** (03)
1. Write the full form of ELISA
 2. Define: Immunotherapy
 3. Write the use of Catheter
 4. Plasmid fingerprinting used to identify _____
 5. What is the importance of immunoblotting?
- Q.4(A) **Answer in detail (Any one)** (07)
1. Describe epidemiological markers of infection disease.
 2. Describe the pathogenicity of Gram negative bacteria.
- Q.4(B) **Answer the following (Any one)** (04)
1. Highlight on pathogenicity of cutaneous mycoses fungi
 2. Write a note on *Clostridium*
- Q.4(C) **Answer the following (Any three)** (03)
1. What is Pandemic disease?
 2. Mortality rate is number of _____ due to a given disease/size of total population with same disease
 3. Define chronic carriers
 4. *Cryptococcus* fungi causes _____
 5. Which are the major modes of pathogen transmissions?
- Q.5(A) **Answer in detail (Any one)** (07)
1. Write a detailed note on modern approaches of vaccines
 2. Write a note on *Plasmodium* spp.
- Q.5(B) **Answer the following (Any one)** (04)
1. Chikungunya
 2. Write a note on pathogenicity of Rotavirus
- Q.5(C) **Answer the following (Any three)** (03)
1. Write the full name of HIV
 2. What is DNA vaccine?
 3. Define Attenuated vaccine.
 4. *Giardia lamblia* causes _____
 5. What is the other name of *Morbillivirus*?
