



DR-003-1016013

Seat No. _____

B. Sc. (Sem. VI) (CBCS) (W.E.F. 2016) Examination

April - 2022

MB - 603 : Clinical Diagnostic Microbiology

Faculty Code : 003

Subject Code : 1016013

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) All questions are compulsory.
(2) The right side figure indicates total marks of the questions.
(3) Draw figure wherever required.

- 1 (a) Answer in short : 4
(1) Define Hemostasis.
(2) Which are various blood group systems ?
(3) In which disease blood does not clot in normal time period ?
(4) What is hematopoiesis ?
- (b) Answer in brief : (any 1 out of 2) 2
(1) Write the process of blood coagulation.
(2) What is blood plasma ?
- (c) Answer in detail : (any 1 out of 2) 3
(1) Which are blood component ? Write their uses.
(2) Explain the role of fibrinogen.
- (d) Write a note on : (any 1 out of 2) 5
(1) Blood Banking.
(2) Rh incompatibility.

- 2** (a) Objective type questions : **4**
- (1) What is of Bacterial Agglutination ?
 - (2) What is Antifibrinolysin ?
 - (3) Enlist special serological test.
 - (4) Give example of Flocculation.
- (b) Answer in brief : (any 1 out of 2) **2**
- (1) Enlist Antigen-antibody reactions.
 - (2) What is virus neutralizing antibody ?
- (c) Answer in detail : (any 1 out of 2) **3**
- (1) Explain Neufeld Quelling reactions.
 - (2) Explain Heamagglutination.
- (d) Write a note on : (any 1 out of 2) **5**
- (1) Intracutaneous Diagnostic test.
 - (2) Precipitation in gel.
- 3** (a) Objective type questions : **4**
- (1) What is Western Blot technique ?
 - (2) Write full form of ELISA and PCR.
 - (3) Give example of enzyme Substrate system in ELISA.
 - (4) What is Immunotherapy ?
- (b) Answer in brief : (any 1 out of 2) **2**
- (1) Explain Immunohistochemistry.
 - (2) Which pathogens can be detected with microscopy ?
- (c) Answer in detail : (any 1 out of 2) **3**
- (1) Explain Immuno electrophoresis.
 - (2) Explain Immunofluorescence.
- (d) Write a note on : (any 1 out of 2) **5**
- (1) RIA.
 - (2) PCR.

- 4 (a) Objective type questions : 4
- (1) Name disease caused by Treponema.
 - (2) Cryptococcosis is caused by_____.
 - (3) Which skin test is used to detect *Mycobacterium tuberculosis* ?
 - (4) Write examples of Opportunistic fungi.
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Write full form of RPR.
 - (2) Write the test for detection of typhoid fever.
- (c) Answer in brief : (any 1 out of 2) 3
- (1) Explain superficial Mycoses.
 - (2) Explain Salmonella.
- (d) Write a note on : (any 1 out of 2) 5
- (1) Epidemiological markers.
 - (2) *Tinea pedis*.
- 5 (a) Objective type questions : 4
- (1) Giardiasis is caused by _____.
 - (2) Which vaccine is for Rubella ?
 - (3) Leishmaniasis is caused by _____.
 - (4) Causative agent of Japanese encephalitis is _____.
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Write full form of HIV and AIDS.
 - (2) Which are the vaccine for Polio ?
- (c) Answer in brief : (any 1 out of 2) 3
- (1) Explain Trypanosomiasis.
 - (2) Explain Amoebiasis.
- (d) Write a note on : (any 1 out of 2) 5
- (1) Vaccines.
 - (2) Malaria.
-