



BBH-003-1016013

Seat No. _____

B. Sc. (CBCS) (Sem. VI) Examination

June / July - 2021

MB-603 : Microbiology

(Clinical Diagnostic Microbiology)

Faculty Code : 003

Subject Code : 1016013

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

[Total Marks : 70

Instruction : Answer any five questions.

- 1 (A) Answer the following questions 4
- (1) Who discovered blood group system?
 - (2) What are cryoprecipitates?
 - (3) What is major cross matching test?
 - (4) Define haemostasis.
- (B) Answer in Brief 2
- (1) Write the significance of cross matching test.
- (C) Answer in detail 3
- (1) Write a short note on blood transfusion.
- (D) Answer in detail 5
- (1) Discuss in detail blood clotting.
- 2 (A) Answer the following questions 4
- (1) What is the use of fresh frozen plasma?
 - (2) What is Bombay blood group system?
 - (3) What is the role of calcium in blood clotting?
 - (4) Which antigen is present in Rh+ve blood group?
- (B) Answer in Brief 2
- (1) What is blood banking?
- (C) Answer in detail 3
- (1) How blood components are separated and stored?
- (D) Answer in detail 5
- (1) Discuss in detail haematopoiesis.

- 3 (A) Answer the following questions 4
- (1) What is lattice hypothesis?
 - (2) What is precipitin?
 - (3) What is Schick test?
 - (4) What is agglutination?
- (B) Answer- in Brief 2
- (1) How virulence can be evaluated?
- (C) Answer in detail 3
- (1) Briefly explain the Nuefeld Quellung reaction
- (D) Answer in detail 5
- (1) Explain Complement fixation test.
- 4 (A) Answer the following questions 4
- (1) What is prozone effect?
 - (2) What is agglutinin?
 - (3) What are heterophile antibodies?
 - (4) What is passive agglutination?
- (B) Answer in Brief 2
- (1) What is virus neutralization?
- (C) Answer in detail 3
- (1) Discuss haemagglutinin inhibition test.
- (D) Answer in detail 5
- (1) Discuss Oudin and Ouchterlony test.
- 5 (A) Answer the following questions 4
- (1) What is the use of swab?
 - (2) What is phage typing?
 - (3) What is probe?
 - (4) What is sputum?
- (B) Answer in Brief 2
- (1) What is Immunotherapy?
- (C) Answer in detail 3
- (1) Explain in brief immunofluorescence.
- (D) Answer in detail 5
- (1) Write a note on ELISA.

- 6 (A) Answer the following questions 4
- (1) Give full form of PCR
 - (2) What is catheter?
 - (3) Give full form of RIA
 - (4) What is ribotyping?
- (B) Answer in Brief 2
- (1) Enlist various microscopic methods of identification of microbes.
- (C) Answer in detail 3
- (1) How viruses are identified in clinical specimen?
- (D) Answer in detail 5
- (1) Discuss the molecular methods of identification of microbes.
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- 7 (A) Answer the following questions 4
- (1) What is health?
 - (2) What is prodromal stage?
 - (3) What is convalescent carrier?
 - (4) What are fomites?
- (B) Answer in Brief 2
- (1) Name the organisms responsible for Syphilis and Bacillary dysentery.
- (C) Answer in detail 3
- (1) Differentiate acute and chronic disease.
- (D) Answer in detail 5
- (1) Discuss pathogenicity, diagnosis, treatment and prevention of disease caused by Candida albicans.
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- 8 (A) Answer the following questions 4
- (1) What is epidemiology?
 - (2) What is morbidity rate?
 - (3) What is disease syndrome?
 - (4) What is herd immunity?
- (B) Answer in Brief 2
- (1) What is salmonellosis?

- (C) Answer in detail 3
 (1) Differentiate superficial, cutaneous and subcutaneous mycoses.
- (D) Answer in detail 5
 (1) Discuss pathogenicity, diagnosis, treatment and prevention of disease caused by *Corynebacterium* spp.
- 9 (A) Answer the following questions 4
 (1) Give full form of MMR.
 (2) What is variolation?
 (3) What is prophylaxis?
 (4) What is Sabin vaccine?
- (B) Answer in Brief 2
 (1) What is DPT vaccine?
- (C) Answer in detail 3
 (1) What is multivalent subunit vaccine?
- (D) Answer in detail 5
 (1) Write pathogenicity, diagnosis, treatment and prevention of Influenza.
- 10 (A) Answer the following questions 4
 (1) Which organism is responsible for amoebic dysentery?
 (2) Which disease is caused by *Giardia lamblia*.
 (3) What is DNA vaccine?
 (4) What are the sites for multiplication of Polio virus?
- (B) Answer in Brief 2
 (1) Write a few symptoms of Leishmaniasis.
- (C) Answer in detail 3
 (1) Write pathogenicity of disease caused by *Trypanosoma* spp.
- (D) Answer in detail 5
 (1) Write -a Mai' led- note oit Mahffia.