



JAX-M01721

Seat No. _____

Second Year M. B. B. S. Examination

December - 2019

Microbiology : Paper - II

(Virology, Parasitology, Mycology, Recent advances)

Time : 2 Hours]

[Total Marks : 40

- Instructions :** (1) Figures on right indicate full marks.
(2) Draw figures wherever necessary.
(3) Write Section-I and Section-II in separate answer sheet.

SECTION - I

- 1 A 46 years male presented with persistent fatigue, loss of appetite, nausea, vomiting, abdominal pain and passing dark colored urine since last 15 days. He gave a history of blood transfusion before six month. On clinical examination icterus, mild hepatomegaly & tenderness in right hypochondriac region found. His liver function tests showed elevated serum bilirubin and liver enzymes.
- (a) What is the most probable viral infection causing such clinical presentation? 1
- (b) Describe the laboratory diagnosis with different serological markers of clinical condition presented. 6
- (c) Describe the prophylaxis & preventive measure of the etiological agent produced this clinical condition. 3
- (d) Which are the two other possible infections that can be transmitted through blood transfusion route. 1
- 2 Write short notes on : (Any Two) 10
- (a) Life cycle & laboratory diagnosis of Plasmodium falciparum.
- (b) Schistosoma, haematobium.
- (c) Life cycle & Pathogenicity of Ascaris lumbricoides.

SECTION - II

- 3** Write short answer : (Any **Two**) **10**
- (a) Laboratory diagnosis of fungal infection.
 - (b) Opportunistic fungal infection.
 - (c) Histoplasmosis.
- 4** Answer in 2-3 sentences : (Any **Five**) **10**
- (a) Give example of four most common type of Hospital acquired infection & name two standard precautions.
 - (b) Give four differences between Taenia Solium & Taenia Saginata.
 - (c) Give examples of four helminths which do not require intermediate host.
 - (d) Give examples of two oncogenic RNA and two oncogenic DNA viruses.
 - (e) What is inclusion body? Give two examples with name of virus causing it.
 - (f) What is a dimorphic fungus? Name four dimorphic fungi.
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