

M.Sc. (Micro) Semester - 3 (CBCS) Examination
OCT/NOV-2024 (AS PER SYLLABUS YEAR JUNE-2019)
Pharmaceutical and Medical Microbiology (Core (New))

Time: 2:30 Hours

Marks: 70

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

SECTION-I

Que-1 Answer the following

- (A) Explain the targets and receptors in drug discovery. (07)
- (B) Write a note on large molecule drugs discovery. (07)

OR

Que-1 Describe the drug development and explain Preclinical and clinical trials. (14)

Que-2 Answer the following

- (A) Write note on swine flu and explain possible roots and treatments of flu. (07)
- (B) Explain epidemiology, prevention and possible diagnosis of Staphylococcus. (07)

OR

Que-2 Explain the mode of transmission, diagnosis, prevention and possible treatment of Treponema and salmonella diseases. (14)

Que-3 Do as direct (any seven)

(07)

- (1) Define mode of transmission of the bird flu.
- (2) Define normal flora and explain its importance
- (3) Define the importance of CRO in drug discovery.
- (4) What is the epidemiology of the Ebola virus?
- (5) What is zoonotic disease? Give the suitable examples of it.
- (6) What is Gnotobiology?
- (7) Define the serological test for negative bacterial infection.
- (8) What is target? Explain the importance of it in drug discovery.

SECTION-II

Que-1 Explain the immunodeficiencies in detail and discuss its types. (14)

OR

Que-1 Answer the following

- (A) Explain the immune response against the parasite infection. (07)
- (B) write note on the immunosuppressive therapies. (07)

Que-2 Explain immunodiagnostics in detail with its importance. (14)

OR

Que-2 Answer the following

- (A) Write a note on monoclonal antibodies. (07)
- (B) Write a note on recombinant vaccines. (07)

Que-3 Do as direct (any seven out of eight questions each of one marks)

(07)

- (1) Explain the concept of adjuvant in vaccine preparation.
- (2) Define TSTA in brief.
- (3) What type of reaction is graft rejection?
- (4) What is cytokines? explain the function it.
- (5) Explain the DNA diagnosis systems in brief.
- (6) Give its example of multivalent vaccine and explain its advantage.
- (7) What is second-line drug therapy?
- (8) Define adoptive cell therapy?
