

Seat No. : _____

AC2-05

April-2018

B.Sc., Sem.-VI

CC-309 : Microbiology
(Medical Microbiology)

Time : 3 Hours]

[Max. Marks : 70

- Note :** (1) Draw figures wherever necessary.
(2) Mention correct question number against each answer.
(3) Figures to the right indicate marks.

1. Answer the following : (any **two**) **14**
- (a) Explain the concept of host parasite relationship.
 - (b) Describe various factors responsible for development of infection.
 - (c) Differentiate between protein and LPS toxin. Explain their mode of actions.
 - (d) Describe the cellular defense mechanism of host.
2. Answer the following : (any **two**) **14**
- (a) Describe the importance of normal flora of various body parts of host.
 - (b) What is gnotobiosis ? Explain in detail.
 - (c) Discuss the various types of epidemiological markers.
 - (d) Explain source and transmission of nosocomial infections.
3. Answer the following : (any **two**) **14**
- (a) Discuss the transmission, symptoms and control of typhoid.
 - (b) Explain etiological agent, transmission and symptoms of syphilis.
 - (c) Describe life cycle of Plasmodium vivax and its role in human life.
 - (d) Explain transmission, symptoms and control of rabies.

4. Answer the following : (any **two**)

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- (a) Explain the methods of collection of various types of pathological specimen.
- (b) Describe two serological methods used in diagnosis of disease.
- (c) How the pathological changes in human host are helpful in diagnosis of disease ?
- (d) Discuss various biochemical techniques of identification of a pathogen.

5. Give short and specific answers in **1-2** lines only :

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- (1) Define parasite.
 - (2) What is infection ?
 - (3) Name positive association that can occur between host and pathogen.
 - (4) Name two secretions which helps in invasiveness of a pathogen.
 - (5) What is inflammation ?
 - (6) Name one technique used to study epidemiology.
 - (7) Draw infectious disease cycle.
 - (8) Name one opportunistic pathogen.
 - (9) Define morbidity and mortality rate of the infection.
 - (10) Name the scientist who received the Nobel Prize in Physiology or Medicine for the discovery of yellow fever vaccine.
 - (11) Which particular cells of in the human immune system are attacked by AIDS virus ?
 - (12) What is DOTS ?
 - (13) What is pandemic disease ? Give one example.
 - (14) Name the virus which causes Hepatitis B.
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