

Seat No. : _____

MO-130

March-2019

B.Sc., Sem.-VI

CC-309 : Microbiology (Medical Microbiology)

Time : 2:30 Hours]

[Max. Marks : 70

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

1. (A) Discuss the cellular and chemical defense mechanism of the host. 14
OR
 - (i) Explain various factors responsible for viral pathogenicity. 7
 - (ii) Describe the role of various adhesions in the process of invasiveness. 7
- (B) Give short and specific answers in **1-2** lines only : (any **four**) 4
 - (i) Define infection.
 - (ii) Give one mode of action of endotoxin.
 - (iii) Name one factor affecting infection.
 - (iv) What is parasitism ?
 - (v) What is the function of mucus membrane ?
 - (vi) Name the enzyme present in tears ?
2. (A) Discuss sources, transmission and control of nosocomial infections. 14
OR
 - (i) Explain gnotobiosis. 7
 - (ii) Describe epidemiological markers. 7
- (B) Give short and specific answers in **1-2** lines only : (any **four**) 4
 - (i) Name normal flora of skin.
 - (ii) Define prevalence rate.
 - (iii) Give one importance of normal flora.
 - (iv) Name one technique used in epidemiology.
 - (v) Define disease cycle.
 - (vi) What is the role of epidemiologist ?

3. (A) Discuss the etiological agent, transmission, symptoms, laboratory diagnosis and control of AIDS. 14

OR

- (i) Explain transmission and symptoms of tuberculosis. 7
- (ii) Describe etiological agent, symptoms and laboratory diagnosis of rabies. 7
- (B) Give short and specific answers in **1-2** lines only : (any **three**) 3
- (i) What is microbial food poisoning ?
- (ii) Name the causative agent of yellow fever.
- (iii) What is the primary lesion of syphilis ?
- (iv) Name one waterborne infection.
- (v) Define merozoite.

4. (A) Write a note on clinical immunology. 14

OR

- (i) Explain types of specimen and their method of collections. 7
- (ii) Discuss the significance of pathological changes in blood and tissues. 7
- (B) Give short and specific answers in **1-2** lines only : (any **three**) 3
- (i) What precautions are necessary during transport of viral specimen ?
- (ii) Name one transport medium ?
- (iii) What is the use of fluorescent dye ?
- (iv) Give importance of computer in clinical microbiology.
- (v) Define 'biosensor'.
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