

Seat No. : _____

SK-124

September-2020

B.Sc., Sem.-VI

**CC-309 : Microbiology
(Medical Microbiology)
(New Course)**

Time : 2 Hours]

[Max. Marks : 50

- Instructions :**
- (1) Answer any **three (3)** questions out of **8 (eight)** questions.
 - (2) Question No. **9** is compulsory.
 - (3) Students should write the answers from the question paper as applicable to them, either **“OLD COURSE”** OR **“NEW COURSE”** and it must be mentioned at the beginning of answer paper.
 - (4) Illustrate your answers with neat diagrams wherever necessary.

1. Discuss host - parasite relationship and factors affecting it. **14**

2. (A) Explain gnotobiotic life and its role in the study of normal flora. **7**
(B) Describe virulence as a degree of pathogenicity. **7**

3. Explain concept of immunoprophylaxis and describe types of vaccines in detail. **14**

4. (A) Write a note on epidemiological markers. **7**
(B) Describe techniques used to study epidemiology. **7**

5. Describe various types of specimen, their collection and transportation in detail. **14**

6. (A) How pathological changes in blood, body fluids and tissues help in disease diagnosis ? **7**
(B) How microscopy is used in pathogen identification and disease diagnosis ? **7**

7. Explain etiological agent, symptoms, transmission, diagnosis and control of malaria. **14**
8. (A) Describe transmission and symptoms of tuberculosis. **7**
(B) Write a note on anthrax. **7**
9. Give short and specific answers in **1-2** lines only : (any **eight**) **8**
- (I) Name two chemicals contributing to the non specific host defence.
- (II) Give two examples of normal flora of eyes.
- (III) Define invasiveness.
- (IV) Mention human body parts which are free from microbial flora.
- (V) Give two hazards of vaccination.
- (VI) Define nosocomial infection.
- (VII) Define epidemiology.
- (VIII) Give two examples of air borne diseases.
- (IX) Give one application of biosensor in clinical medicine.
- (X) Name three types of catheters in clinical laboratory.
- (XI) Mention confirmative biochemical reactions of *Proteus vulgaris*.
- (XII) Enlist types of specimens generally clinical microbiologist has to handle.
- (XIII) Give causative agent of tuberculosis.
- (XIV) What is shape of rabies virus ?
- (XV) What is food poisoning ?
- (XVI) Name one insect borne disease.
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1. Explain non specific host defenses in detail. **14**

2. (A) Describe factors affecting the process of infection. **7**
(B) Discuss host - parasite relationship in brief. **7**

3. Describe normal microbiota of human body in detail. **14**

4. (A) Explain transmission and control of nosocomial infections. **7**
(B) Describe techniques used to study epidemiology. **7**

5. Write a note on “Transmission and control of food and water borne infections. **14**

6. (A) What is meant by contagious disease? Describe symptoms and diagnosis of syphilis. **7**
(B) Describe etiological agent, symptoms, transmission and control of rabies. **7**

7. Explain clinical immunology in detail. **14**
8. (A) Explain types of specimens and their method of collection. **7**
(B) Explain growth and biochemical characteristics of various pathogens. **7**
9. Give short and specific answers in **1-2** lines only : (any **eight**) **8**
- (I) Define toxigenicity.
- (II) How viruses attach to their host cell?
- (III) Give two examples of capsule producing bacteria.
- (IV) What is endotoxin?
- (V) Name two qualities of epidemiological markers.
- (VI) What is mortality rate?
- (VII) Define gnotobiotic life.
- (VIII) Give two examples of organisms responsible for food poisoning.
- (IX) Name a disease caused by retrovirus.
- (X) Give two examples of arthropod borne disease.
- (XI) Give the name of causative agent of typhoid fever.
- (XII) Name the causative agent of malaria.
- (XIII) Name one transport medium of clinical specimen.
- (XIV) What is significance of computer in clinical medicine ?
- (XV) What precautions are necessary during transport of viral specimen ?
- (XVI) Mention confirmative biochemical reactions of *E-coli*.
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