

B.Sc Sem.-6 (Rep) Examination**CC 309****Microbiology****September-2024****Time : 2-30 Hours]****[Max. Marks : 70**

1. All questions are compulsory.
2. Draw figures wherever necessary.
3. Figures on right side indicate marks

Q.1 Explain origin and establishment of normal flora along with their advantages and disadvantages and describe normal flora of small intestine **(14)**

Q.1 (A) Write a note on: Role of bacterial secretions in invasiveness **(07)**
(B) Describe endotoxins **(07)**

Q.2 Write a detailed note on: Types and hazards of vaccine **(14)**
OR

Q.2 (A) Write a note on epidemiological markers **(07)**
(B) What is infection? Discuss infectious disease cycle **(07)**

Q.3 Discuss in detail: Types, methods of collection, storage and transportation of clinical specimen **(14)**
OR

Q.3 (A) Describe growth and biochemical characteristics that aid in diagnosis **(07)**
(B) Enlist different immunological techniques available for diagnosis and write about ELISA **(07)**

Q.4 Discuss aetiology, symptoms, transmission diagnosis and treatment of: syphilis **(14)**
OR

Q.4 (A) Describe malaria with respect to its aetiology, symptoms, transmission diagnosis and treatment **(07)**
(B) Write a note on anthrax **(07)**

Q.5 Answer in short (Any seven) (14)

- 1 What is gnotobiosis?
- 2 Enlist types of hosts
- 3 Define ID₅₀ and LD₅₀
- 4 Name two control measures for nosocomial infections
- 5 What is morbidity rate? How will you calculate it?
- 6 Define endemic and pandemic
- 7 Name two changes occurring in skin tissues that indicate respiratory viral infections
- 8 Enlist two uses of computers in clinical microbiology
- 9 What is ESR? Name the pathological condition if ESR is high
- 10 Write treatment and prevention of hepatitis A
- 11 What is DOT therapy? Name the drugs used for the same.
- 12 Enlist symptoms of dengue