

Q1: Enumerate:

(2.5 marks each)

- a. Explain Methods used for testing the efficiency of autoclaving.
- b. Explain Mechanisms of antimicrobial drug resistance

Q2: Give short account on the following

- a-Enumerate the biologic functions of activated complement (4 marks)
- b- Mention clinical examples of Type II hypersensitivity (4 marks)
- c- Importance of MHC antigen (4 marks)

Q3:

(3 marks)

Define Nosocomial infection and mention Sources of nosocomial infection

Q4:

(5 marks)

A 19 years old male patient presented to the hospital with acute abdominal pain, bloody diarrhea and fever started a day ago after eating chicken in a cafeteria 3 days earlier. A stool sample showed gram negative S shaped rods.

- a. What is the most possible pathogenic organism?
- b. In what atmospheric environment does this organism grow?
- c. What are the selective media for this organism?
- d. What are the biochemical reactions for this organism?
- e. How to treat this case?

Q5: Discuss the following

- a) Post-streptococcal diseases (5 marks)
- b) Investigation of an outbreak of botulism (5 marks)

Q 6: Discuss the following

- a. Role of Proto-Oncogene theory in cancer production (3 marks)
- b. Vaccine against : HBV (3 marks)
- c. Diagnosis of Candida infection (4 marks)

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