

2/16

2609N551

Candidate's Seat No : _____

B.Sc Sem.-6 (Rep) Examination

CC 308

Biochemistry

September-2024

Time : 2-30 Hours]

[Max. Marks : 70

- Q.1 A. Write difference between Natural media and synthetic media 2
- B. Write a brief note any one 12
- (i) Chlorine as disinfectant
- (ii) Sterilization by Autoclave
- OR
- Q.1 A. Define the term i. Tyndallisation ii. Pasteurization 2
- B Write a brief note any one 12
- (i) Specialised media
- (ii) Nutritional classification of bacteria
- Q.2 A Describe any three methods for preservation of microbes 10
- B Define the term and calculate generation time with example 4
- OR
- Q.2 A Describe Growth curve in detail 10
- B Define the term 1. Thermophile 2. Barophilic 2
- Explain the one method of cultivation of anaerobes 2
- Q.3 A. Explain tuberculosis diseases in detail 10
- B Explain the term 04
- (i) Chemotherapeutic index

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(ii) Non medical uses of antibiotics

OR

Q.3 A. Explain Penicillin as antibiotic (Mode of action, uses, and limitation) 10

B Explain the term 04

(i) Antibiotic and drug

(ii) Drug resistance

Q.4. A Write a note on Bioreactor design its parts 10

B Briefly describe 4

(i) Fed batch culture

(ii) Packed bed reactor

OR

Q.4 A. Write a note on Production Beer or Vinegar 12

B Define the term 2

(i) Fermentation process

Q.5 Attempt Any Seven 14

1. What is Phenol as co-efficient

2. Name the two microbial gases and its uses

3. Write uses of Nucleopore and Millipore

4. Define Diauxic growth

5. Define aerophiles and facultative anerobes

6. Define pure culture and mixed culture

7. Write two properties of antimicrobial agent

8 Write mode of action of chloramphenicol

9. Give mode of transmission of typhoid

10 Name the diagnostic test for typhoid

11. Name the microbial sources for beer production

12 . Write a steps invovled in vinegar production.

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