

Roll No.

Total No. of Pages : 02

Total No. of Questions : 11

B.Sc. (Medical Technology-Anaesthesia and Operation Theatre) (Sem.-2)

**BIOCHEMISTRY AND PATHOLOGY**

Subject Code : BAOTT203-21

M.Code : 91747

Date of Examination : 08-07-22

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of EIGHT questions carrying TWO marks each.
2. SECTION-B contains EIGHT questions carrying SIX marks each and students have to attempt any FOUR questions.
3. SECTION-C will comprise of two compulsory questions with internal choice in both these questions. Each question carries TEN marks.

**SECTION-A**

1. a) Define isoenzymes and coenzymes.  
b) Give the structure of tyrosine and alanine.  
c) Name various enzymes responsible for control of glucose in the body.  
d) Discuss biological functions of calcium and potassium.  
e) Differentiate necrosis and apoptosis.  
f) Discuss the various mediators of acute inflammation.  
g) What do you mean by TORCH infection?  
h) Explain autoimmune disorders with an example.

**SECTION-B**

2. Write a brief note on IUPAC nomenclature of compounds containing carbonyl groups.
3. Explain denaturation of protein in brief.
4. What are radioactive substances? Discuss the various types of radiations emitted by them.

5. Describe liver function test and its significance in pathology.
6. Give a brief note on causes of cell injury.
7. Discuss the various stages of cell growth with the various factors associated with it.
8. Write in brief about infections associated with *E.coli*.
9. Describe various types of immunity disorders.

### SECTION-C

10. Define inflammation. Give detailed account on general features of acute inflammation and its mechanism.

OR

What do you mean by hypersensitivity reactions? Classify them and discuss in brief about Type I and III.

11. Write a detailed note on disorders associated to abnormal functioning of liver and metabolism of bilirubin.

OR

What is blood respiration? Discuss in detail. What is the role of Hemoglobin in blood respiration? Discuss the disorders related to abnormal blood respiration.

**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**