



RAN - 2003000204020073

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**B. Sc. (Medical Technology) (Sem. - IV) Examination April - 2023**

**MLT - 10 : General Biochemistry - II**

[ Total Marks: 50

**સૂચના : / Instructions**

(1) નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
Fill up strictly the details of signs on your answer book

Name of the Examination:  
B. Sc. (Medical Technology) (Sem. - IV)

Name of the Subject :  
MLT - 10 : General Biochemistry - II

Subject Code No.: 2003000204020073

Seat No.:

Student's Signature

(2) All questions are compulsory.

**Q. 1. Objective type Question. (Any four) (08)**

- 1) Enlist the secondary messengers used for mechanism of non steroid hormone.
- 2) What is hypokalemia and hyperkalemia?
- 3) Enlist the arms of tRNA.
- 4) What is vitamin? Enlist fat soluble vitamins.
- 5) What is Chargaff's rule? Name the nucleic acid that does not follow this rule.

**Q. 2. Write in details on the following: (Any two) (14)**

- 1) Explain mechanism of G protein mediated cAMP synthesis.
- 2) Explain biochemical functions, sources, absorption and disease states of calcium.
- 3) Write a note on nucleoside.

**Q. 3. Write in details on the following: (Any two) (14)**

- 1) What is mineral? Explain general functions and classification of mineral?
- 2) Enlist water soluble vitamins. Explain any one vitamin in detail.
- 3) Write a note on sodium

**Q. 4. Write in details on the following: (Any two) (14)**

- 1) Explain role of phosphatidyl inositol and calcium as second messenger.
  - 2) Write a note on structure of DNA.
  - 3) Justify - Vitamin D is a hormone and not a vitamin.
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