



**J-0856**  
**Second Year B. Sc. Examination**  
**March/April – 2013**  
**Medical Technology : Paper - V**  
*(General Biochemistry)*  
*(Old Course)*

Time : Hours]

[Total Marks : 70

**Instructions :**

(1)

|  |   |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|
| <p>नीचे दृशविल निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.<br/>Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :</p> <p><b>Second Year B. Sc.</b></p> <p>Name of the Subject :</p> <p><b>Medical Technology : Paper - 5 (Old)</b></p> <p>Subject Code No. : <b>0 8 5 6</b> Section No. (1, 2,.....) : <b>NIL</b></p> | <p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table> <div style="border: 1px solid black; border-radius: 15px; height: 60px; margin-top: 10px; display: flex; align-items: center; justify-content: center; padding: 10px;">Student's Signature</div> |  |  |  |  |  |  |
|  |   |  |  |  |  |  |  |

- (2) Figure to the right indicate full marks.  
(3) Draw neat and labelled diagram wherever necessary.

1 Answer the following briefly : 14

- (a) Which are the similarities and difference between DNA and RNA ?
- (b) What is PUFA ? Give one example.
- (c) Define essential amino acid.
- (d) What is ELISA ?
- (e) Give two functions of calcium.
- (f) Define disaccharide. Give two examples.
- (g) Which vitamins are soluble in fat ? Give function of any one of the fat soluble vitamin.

2 Comment/explain any **three** of the following : 15

- (a) Nucleoside differs from nucleotide.
- (b) Enzymes are inhibited by different ways.
- (c) Phosphotidic acid acts as a backbone for synthesis of other phospholipicls.
- (d) PUFA is also known as essential fatty acids.

- 3 Write an essay on : 10  
"Factors affecting enzyme activity".
- 4 Attempt any **two** of the following : 16  
(a) Explain the methods of transport of molecules across the cell membrane.  
(b) Colorimeter : Principle and components  
(c) Biomedical importance of monosaccharide and disaccharide.
- 5 Write short notes on : (any **three**) 15  
(a) Enzyme classification  
(b) Denaturation of protein  
(c) Isomerism  
(d) Fluorimetry  
(e) Functions of vitamin A.
-