

BV (1)/ML & MDT-1.2/16 (MC)

**B.Voc First Semester (Medical Laboratory
and Molecular Diagnostic Technology)
Exam., 2016**

MEDICAL LABORATORY TECHNICIAN

Paper : S-1.2

**(Basic Biochemistry, Instrumentation
and Reagents)**

Full Marks : 40

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

1. Fill in the blanks : 1×5=5

(a) Milk sugar is having _____.

(b) The carbohydrate is reserved in human
body as _____.

α (c) The maximum number of double bonds
present in essential fatty acid is _____.

(d) The protein present in hair is _____.

(e) RNA does not contain _____.

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(Turn Over)

2. Write short notes on any *five* of the following : $2 \times 5 = 10$

- (a) Nucleotide
- (b) Epimer
- (c) Isoelectric point
- 10 (d) Glycosuria
- (e) Competitive inhibition
- (f) Zwitterion
- (g) Reducing sugar

3. Answer any *three* of the following questions : $5 \times 3 = 15$

- ζ (a) Differentiate between DNA and RNA.
- (b) Write the functions of nucleic acid.
- ζ (c) Write a note on enzyme classification.
- α (d) Write a note on LDH isoenzyme.
- (e) Write about the optical properties of amino acid.

4. Answer any *one* of the following questions : 10

- (a) Explain the EMP shunt pathway of carbohydrate.
- α (b) Describe the structure of *t*-RNA.
- (c) Write an essay on protein classification on the basis of their functions.
