

## Course V

### II Semester M.Sc. (In Clinical Nutrition and Dietetics) Examination, January 2015 NUTRITIONAL BIOCHEMISTRY

Time : 3 Hours

Max. Marks : 80

**Instruction :** Answer the questions from *all* Parts following their *internal* choices.

#### PART – A

Answer **any four** of the following.

(4×5=20)

1. Discuss the fate of pyruvate under anaerobic condition.
2. Explain Ketosis.
3. Mention the significances of HMP-pathway.
4. Write a note on fatty liver.
5. Explain decarboxylation reaction of an amino acid.
6. Give an account of the role of bile acids.

#### PART – B

Answer **any three** of the following.

(3×10=30)

7. Schemate TCA cycle.
8. Give the energetic of glycolysis and Krebs's cycle.
9. Describe nitrogen turnover and urea cycle.
10. Give an account of fates of pyruvate.
11. Explain the components of ETC.

#### PART – C

Answer **any two** of the following.

(2×15=30)

12. Write briefly on inherited disorders of amino acid metabolism.
13. Give an account on biological oxidation.
14. Discuss metabolic disorders of nucleic acid metabolism.
15. Write note on
  - a) SCID
  - b) Orotic aciduria
  - c) Gout.