

## T80/T82/SBI034/SBT034/EE/20160714

**Time : 3 Hours**

**Marks : 80**

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**Instruction :**

1. All Questions are Compulsory.
  2. Each Sub-question carry 5 marks.
  3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
  4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
  - a) Explain the catabolic process in detail. 5
  - b) Why Proteins are known as building block of body and explain in short? 5
  - c) Describe the anabolism in detail. 5
  - d) Write the concept of amphibolism. 5
  - e) Elaborate the term macromolecules. 5
2. Solve any **four** sub-questions.
  - a) Explain synthesis of glucose from non carbohydrate source. 5
  - b) Write each step of synthesis of odd number of fatty acid. 5
  - c) Write short note on synthesis of fatty acid. 5
  - d) Describe the role of carnitine molecule in synthesis of fatty acid. 5
  - e) Describe the synthesis sulphur containing amino acid. 5
3. Solve any **four** sub-questions.
  - a) Describe HMP in detail. 5
  - b) Write short note on synthesis of  $\alpha$  ketoglutarate. 5
  - c) What is EMP? Explain in detail. 5
  - d) Write intermediary step of EMP cycle and kreb cycle. 5
  - e) Write shot note on synthesis of citrate. 5

4. Solve any **four** sub-questions.
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| a) | Describe $\beta$ - oxidation of fatty acid in detail. | 5 |
| b) | Describe simplification of proteins.                  | 5 |
| c) | Write note on transamination.                         | 5 |
| d) | Describe hydrolysis of proteins.                      | 5 |
| e) | Write the concept of omega oxidation of fatty acid.   | 5 |

