

Day: **Friday**
Date: **10/11/2017**

Time: **02.00 PM TO 05.00 PM**
Max. Marks: 60

W-2017-3789

N.B.:

- 1) Q. No. 1 and Q. No. 5 are **COMPULSORY**. Out of the remaining solve any **TWO** question from each section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.

SECTION-I

- Q.1** Attempt any **FIVE** of the following: (10)
- a) Give the structure of ATP.
 - b) How pyruvate is converted to alcohol?
 - c) What is substrate level phosphorylation?
 - d) State transamination of Alanine?
 - e) State biosynthesis of histamine from histidine.
 - f) What is primer selection in PCR?
- Q.2** a) How amino group of amino acid is mobilized during metabolism? Describe urea biosynthesis in detail. (07)
b) What are lipoproteins? Give different types of lipoproteins present in Plasma. (03)
- Q.3** a) What is gluconeogenesis? Explain in detail and give its physiological importance. (07)
b) What is methyl malonate acidosis? (03)
- Q.4** Write notes on any **TWO**: (10)
- a) Glycogen Biosynthesis
 - b) Liver function Tests (LFT)
 - c) Biochemical role of calcium.

SECTION-II

- Q.5** Attempt any **FIVE** of the following: (10)
- a) Describe structure of t- RNA.
 - b) What are restriction Endonuclease? Give one example.
 - c) What is point mutation?
 - d) What is the effect of UV radiation on DNA structure?
 - e) State the active form of folic acid.
 - f) What is wobble hypothesis?
- Q.6** a) What is reverse transcription? Explain in detail and give its importance in recombinant DNA technology. (07)
b) What is obstructive jaundice? (03)
- Q.7** a) Define genetic code. State the properties of genetic code. (07)
b) State the biochemical role of vitamin B₆. (03)
- Q.8** Write notes on any **TWO**: (10)
- a) Kwashiorkor
 - b) Kidney function tests (KFC)
 - c) Biochemical role of vitamin B₁