**FIRST YEAR PHARM. D (SUPPLEMENTARY) : SUMMER - 2018**

**SUBJECT : MEDICINAL BIOCHEMISTRY**

Day : **Wednesday** Time : **10.00 AM to 01.00 PM**
Date : **04/07/2018** **S-2018-4050** Max. Marks : 70

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**N.B.**

1) **Q.1** and **Q.5** are **COMPULSORY**. And out of remaining solve **TWO** questions from each section.
2) Answer to both the section should be written in **SEPARATE** answer book.
3) Figures to the right indicate **FULL** marks.

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## SECTION – I

**Q.1** **A)** Answer any **FOUR** of the following: **(08)**
**a)** What is clinical hyperglycemia?
**b)** What is osteoporosis?
**c)** State any one biochemical reaction which require Vitamin C.
**d)** What is DNA proof reading?
**e)** What is β-oxidation?

**B)** What is methyl malonate acidosis? **(03)**

**Q.2** What are enzymes? Explain enzymes as biological indicators in diagnosis of diseases with suitable examples. **(12)**

**Q.3** **a)** What is the pH of blood? How blood pH is regulated? **(07)**
**b)** Describe the biosynthesis of glycogen. **(05)**

**Q.4** Write short note on any **THREE** of the following: **(12)**
**a)** Allosteric enzymes
**b)** Properties of genetic code
**c)** Biochemical role of iron
**d)** Chemical jaundice

## SECTION – II

**Q.5** **A)** Answer any **FOUR** of the following: **(08)**
**a)** State metabolic origin of uric acid.
**b)** What are anti metabolites? Give examples
**c)** What is pernicious anemia?
**d)** What is point mutation?
**e)** How oxaloacetate is obtained from aspartate?

**B)** State biochemical role of Vitamin B6. **(03)**

**Q.6** Describe pentose phosphate pathway in detail and its biochemical significance. **(12)**

**Q.7** **a)** What is transamination? Explain the catabolism of histidine and phenylalanine. **(07)**
**b)** What is reverse transcription? State its importance in genetic engineering. **(05)**

**Q.8** Write short note on any **THREE** of the following: **(12)**
**a)** Post translational modifications
**b)** Liposome
**c)** Competitive inhibition
**d)** Biochemcial role of folic acid

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