

Total No. of Questions : 12

[Total No. of Pages : 2

**P955**

**[3844] - 105**

**I - M.B.B.S.**

**BIOCHEMISTRY**

**(Old Course)**

*Time : 3 Hours]*

*[Max. Marks : 100*

*Instructions to the candidates:*

- 1) *Answer any five questions from each section.*
- 2) *Answers to the two sections should be written in separate answer books.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *All questions carry equal marks.*

**SECTION - I**

- Q1)** Describe the various mechanisms which regulate blood sugar level. **[10]**
- Q2)** Enumerate the Ketone bodies. Describe the formation and utilization of Ketone bodies in the body. **[10]**
- Q3)** Describe the metabolic fate and biochemical role of tyrosine in body. **[10]**
- Q4)** Describe briefly the metabolism of purine in human body. **[10]**
- Q5)** Write short notes on (any two): **[10]**
- a) Metabolic role of iron.
  - b) Use of Enzyme estimation in liver function test.
  - c) Genetic codes.
- Q6)** Write short notes on (any two): **[10]**
- a) Polymerase chain reaction.
  - b) Glutathione.
  - c) Transamination.

**P.T.O.**

**SECTION - II**

- Q7)** Describe Chemistry & functions of cholesterol. **[10]**
- Q8)** Describe structure of DNA and its biological role. **[10]**
- Q9)** Write dietary sources, biochemical functions and deficiency manifestations of vitamin 'E'. **[10]**
- Q10)** Describe various factors affecting enzyme action. **[10]**
- Q11)** Write short notes on (any two): **[10]**
- a) Electron transport chain.
  - b) Biochemical role of insulin
  - c) Glycolipids
- Q12)** Write short notes on (any two): **[10]**
- a) Water balance.
  - b) Alkalosis.
  - c) Use of radioactive isotopes in medicine.

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