

[LN 504]

AUGUST 2018

Sub.Code :5055

**M.B.B.S. DEGREE EXAMINATION  
FIRST YEAR  
PAPER V – BIOCHEMISTRY - I**

*Q.P. Code: 525055*

**Time: Three hours**

**Maximum : 50 Marks**

**Answer All Questions**

**I. Essay:**

**(1 x 10 = 10)**

1. Explain the site, steps and energetics of  $\beta$  oxidation of even chain fatty acids. Add a note on its regulation.

**II. Write notes on:**

**(5 x 4 = 20)**

1. Biochemical functions of Vitamin B12.
2. Functions of calcium.
3. Glucose transporters.
4. Von Gierke disease.
5. Metabolism in adipose tissue during starvation.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Functions of endoplasmic reticulum.
2. Dietary fiber.
3. Physiological importance of glycogenolysis.
4. Define B.M.R. Give its value.
5. Antiatherogenic role of high density lipoprotein cholesterol.
6. IUBMB classification of enzymes.
7. Cori cycle.
8. Suicide inhibition of enzymes.
9. Importance of brown fat.
10. Importance of sphingomyelin.

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