

[LN 504]

NOVEMBER 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. What is the normal blood glucose level? Discuss the factors regulating blood glucose in the fasting and postprandial states. Write the diagnostic criteria for diabetes mellitus.

II. Write notes on:

(5 x 4 = 20)

1. Classify membrane transport mechanisms. Add a note on active transport.
2. Fatty liver.
3. Types of enzyme inhibition with suitable examples.
4. Functions of vitamin B6 and its deficiency manifestations.
5. Biochemical changes in Atherosclerosis.

III. Short answers on:

(10 x 2 = 20)

1. What are metalloenzymes? Give two examples.
2. What is glycemic index? Mention two examples of high glycemic index food.
3. Limiting aminoacids with examples.
4. Mechanism of action of methotrexate and dicoumarol.
5. Fluorosis.
6. Hemochromatosis.
7. Serum lipid profile.
8. Refsum's disease.
9. Essential pentosuria.
10. Lecithin sphingomyelin ratio.
