

**Q.P.Code:102379**

**REG. No:.....**

**First Year M.Sc Medical Physiology Degree Examinations  
September 2018**

**(FOUNDATION COURSE)**

**Paper II – Biochemistry**

**Time: 3 hrs**

**Max. Marks: 70**

- *Answer all the questions*
- *Draw diagrams wherever necessary*

**Essay:**

**(2x10=20)**

1. What is beta oxidation of fatty acids. What are the steps of beta-oxidation. Describe briefly the regulation and the energetics when palmitic acid is oxidized by beta-oxidation. (1+4+2+3)
2. What is translation. Describe the steps of translation. Describe briefly the post translational modification. (1+6+3)

**Short Notes:**

**(6x5=30)**

3. Factors affecting enzyme activity
4. Glucose transporters
5. Heme synthesis
6. Biologically important compounds formed from phenyl alanine
7. Buffers
8. RIA

**Answer briefly:**

**(10x2=20)**

9. Uncouplers of electron transport chain
10. Tumour markers
11. Scurvy
12. Homocystinuria
13. Van Den Bergh test
14. IgG
15. Fluorosis
16. Thromboxanes
17. Glycated hemoglobin
18. Aspartate amino transferase (AST)

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