

**First year M.Sc.Medical Physiology Degree Supplementary Examination, April 2016**

**(FOUNDATION COURSE)**

**Time: 3 hrs**

**Max. Marks:- 70**

**PAPER II – BIOCHEMISTRY**

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

**Essay: (2x10=20)**

1. Explain Glycolysis with ATP yield and regulation. Mention its significance  
(1+9=10)
2. Explain the sources, biochemical functions and deficiency manifestations of vitamin D  
(1+5+4=10)

**Short Notes: (6x5=30)**

3. Genetic code
4. Digestion of carbohydrates
5. Factors affecting enzyme activity
6. Synthesis of heme.
7. Lipoproteins.
8. Glycogenolysis

**Answer briefly: (10x2=20)**

9. Respiratory acidosis
10. Thiamine
11. Salvage pathway
12. DNA repair
13. Cori's cycle
14. Lysosomes
15. Radio immune assay
16. Gene therapy
17. Essential fatty acids
18. Diabetic ketoacidosis

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