## Rajiv Gandhi University of Health Sciences, Karnataka

First Phase MBBS Degree Examination - June 2013

Time: Three Hours Max. Marks: 100 Marks

## BIOCHEMISTRY-PAPER I (REVISED SCHEME) QP Code: 1055

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS 2 x 9 = 18 Marks

- 1. Enumerate the reactions of purine degradation and add a note on Gout
- 2. Describe the process of DNA replication

SHORT ESSAYS  $10 \times 5 = 50 \text{ Marks}$ 

- Components of ETC
- 4. Uronic acid pathway
- Fatty Liver
- 6. Intestinal absorption and transport of iron
- Digestion and absorption of proteins.
- 8. Porphyrias
- Explain the amphibolic role of TCA cycle
- Metabolic changes during starvation
- Write Four detoxification mechanisms with One example for each.
- Write the principle of Vanden Bergh's test and its application.

SHORT ANSWERS 16 x 2 = 32 Marks

- Define the term active and passive transport.
- 14. Write Four structural features of cell membrane
- 15. Write short note on dietary fibre
- 16. Write short note on rickets
- Define isoelectric pH and state properties of a protein at its isoelectric pH.
- 18. What are lipotropic factors? Name them
- Write short note on carnitine
- Name the key gluconeogenic enzymes
- Give the composition of hyaluranic acid.
- 22. Define Km value. What is its significance?
- 23. Write short on albinism
- 24. Describe the role of bile salts in lipid metabolism
- 25. Name any Two specialized products derived from glycine
- 26. Name the deficient enzyme in a) Hyperargininemia b) Phenyl ketonuria
- Calculate energy requirement per day of a student of 20 years.
- Write short note on protein calorie malnutrition.

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