QP Code:103103	Reg.No.:
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PG Degree Supplementary Examinations in Biochemistry (MD) October 2018

Paper III - Nutrition and Metabolism

Time: 3 hrs Max marks:100

- Answer all questions
- Draw diagrams wherever necessary

Essay: (20)

1. Describe the various ways by which ammonia is formed from various metabolites and explain how it is detoxified in the body.

Short essays: (8x10=80)

- 2. Explain irreversible steps of glycolysis with the enzymes involved. Describe energetics under aerobic and anaerobic conditions
- 3. Define and classify porphyrias. Add a note on acute intermittent porphyria
- 4. Inhibitors of oxidative phosphorylation
- 5. Gluconeogenesis in starvation and well fed state
- 6. Explain the biochemical basis of Lesch-Nyhan syndrome and Von Gierke's disease
- 7. Importance of SDA of food
- 8. Explain why folate and vitamin B_{12} deficiency leads to megaloblastic anaemia.
- 9. Outline the role of vitamin A in the visual cycle.
