QP Code: Reg. No.....

Third Year B.Sc Medical Biochemistry Degree Examination October 2017

Paper IX - METABOLISM II (Model Question Paper)

Time: 3 hrs Max Marks: 80

- Answer all Questions
- Draw diagrams wherever necessary

Essays (2x15=30)

- Give an account of chemistry, sources, RDA, function and deficiency symptoms of vitamin D
- 2. Explain the mechanism of action of hormones. Add a note on second messengers.

Short Essays (2x10=20)

- 3. Define BMR. What are the factors affecting BMR
- 4. Explain the metabolism of sodium and potassium. Explain their deficiency disorders.

Short Answers (4x5=20)

- 5. Folic acid
- 6. PEM
- 7. Catecholamines
- 8. Porphyrias

Comment on (5x2=10)

- 9. Hormone receptors
- 10. Jaundice
- 11. Scurvy
- 12. Insulin
- 13. Pellagra

QP Code: Reg. No.....

Third Year B.Sc Medical Biochemistry Degree Examination October 2017

Paper X - Clinical Biochemistry (Model Question Paper)

Time: 3 hrs Max Marks: 80

- Answer all Questions
- Draw diagrams wherever necessary

Essays (2x15=30)

- 1. What are plasma proteins. Explain their functions and clinical significance
 - 2. What is the normal blood pH. How is it regulated. Add a note on acid base balance.

Short Essays (2x10=20)

- 3. Blood glucose regulation
- 4. Metabolism of xenobiotics

Short Answers (4x5=20)

- 5. TDM
- 6. Theories of ageing
- 7. Diabetes mellitus
- 8. Blood buffers

Comment on (5x2=10)

- 9. Hypokalemia
- 10. Glycated hemoglobin
- 11. Fatty liver
- 12. Osmolality
- 13. Micro albuminuria

QP Code: Reg. No.....

Third Year B.Sc Medical Biochemistry Degree Examination October 2017

Paper XI- METABOLISM III (Model Question Paper)

Time: 3 hrs Max Marks: 80

- Answer all Questions
- Draw diagrams wherever necessary

Essays (2x15=30)

- 1. Describe in detail steps, enzymes and inborn errors associated with purine metabolism. Add a note on its regulation
- 2. Describe in detail steps involved in translation. Add a note on the post translational modifications and inhibitors of protein synthesis.

Short Essays (2x10=20)

- 3. Describe in detail steps, enzymes and inborn errors associated with pyrimidine metabolism.
- 4. DNA replication

Short Answers (4x5=20)

- 5. Mutation
- 6. DNA repair
- 7. PCR
- 8. Restriction endonuclease

Comment on (5x2=10)

- 9. Southern blotting
- 10. RNA polymerase
- 11. Orotic acid urias
- 12. Operon
- 13. Gene therapy
