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First Year BDS Degree Supplementary Examinations - February 2015

General Human Physiology and Biochemistry

Time: 3 Hours Max Marks: 100

- Answer all questions
- Draw diagrams wherever necessary
- Write **SECTION A** and **SECTION B** in separate Answer books(32 Pages). Do not mix up questions from Section A and Section B.

QP CODE:102002 Section A - PHYSIOLOGY Marks: 50

Essay (14)

1. Name the hormones of adrenal gland. List the functions of glucocorticoids and explain how the secretion of glucocorticoids is regulated. Add a note on hyper secretion of glucocorticoids.

(3+5+3+3=14)

Short essays (2x8=16)

- 2. Explain the pathway for pain from left leg. What is referred pain and mention its significance with an example
- 3. Explain the role of diaphragm in breathing. Add a note on changes in intra pulmonary and intra pleural pressure during normal breathing.

Short notes (5x4=20)

- 4. Draw a diagram of nephron. Explain the first step of urine formation.
- 5. Explain the safe period as a family planning method with its physiological basis.
- 6. Describe the basis and inheritance of ABO blood grouping.
- 7. Name the bile salts and explain its functions.
- 8. Explain ECG with the help of a neat labeled diagram.

QP CODE:103002 Section B - BIOCHEMISTRY Marks: 50

Essay (14)

1. Discuss in detail about the formation, transport and disposal of ammonia. Mention the disorders associated with it. (3+2+6+3=14)

Short essays (2x8=16)

- 2. Explain briefly gluconeogenesis
- 3. Mention normal level of serum calcium and explain its regulation

Short notes (5x4=20)

- 4. Clinically important enzymes
- 5. Functions and deficiency of tocopherols-vitamin E
- 6. Anti metabolites.
- 7. Jaundice
- 8. Functions of immunoglobulins.
