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First Year BDS Supplementary Degree Examinations - February 2013

## **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. Do not mix up questions from Section A and Section B.

QP CODE:102002 Section A - PHYSIOLOGY Marks: 50

Essay (14)

1. Enumerate the hormones secreted by the pituitary gland. Discuss the actions of growth hormone. Add a note on disorders produced by hyper secretion of growth hormone (3+8+3=14)

Short essays (2x8=16)

- 2. Describe the composition and functions of pancreatic juice.
- 3. Describe the endometrial changes during the different phases of menstrual cycle, giving its hormonal basis.

Short notes (5x4=20)

- 4. Factors influencing glomerular filtration
- 5. Heart sounds
- 6. Cell mediated immunity
- 7. Formation and functions of CSF
- 8. Referred pain

QP CODE:103002 Section B - BIOCHEMISTRY Marks: 50

Essay (14)

1. Enlist the sources and RDA of vitamin D. Name the active form of vitamin D and how it is formed. Explain its biochemical functions. Mention the causes and manifestations deficiency of vitamin D. (2+1+4+4=3=14)

Short essays (2x8=16)

- 2. What are the normal fasting and postprandial plasma glucose level. Explain the role of hormones in blood glucose regulation.
- 3. Classify lipids with examples. Mention the functions of lipoproteins.

Short notes (5x4=20)

- 4. Mention four differences between marasmus and kwashiorkor.
- 5. What is the normal serum uric acid level and mention the causes of gout.
- 6. Explain the biochemical alterations seen in blood and urine in obstructive jaundice.
- 7. Name four clinically important enzymes and mention their significance.
- 8. Name the specialized products synthesized by glycine. Explain the synthesis of any two of them.

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