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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)

 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)

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

Short notes (5x4=20)

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

QP CODE:103002 Section B - BIOCHEMISTRY Marks: 50

Essay (14)

 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)

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

Short notes (5x4=20)

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



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