

**First Year BDS Degree Examinations July 2018**

**General Human Physiology and Biochemistry**

**(2016 SCHEME)**

**Time: 3 Hours**

**Max Marks: 70**

- 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: 112002**

**Section A - PHYSIOLOGY**

**Marks: 35**

**Essay:**

**(10)**

1. Describe the origin, course and termination of pyramidal tract. Mention its functions and list the features of upper motor neuron lesion (4+3+3)

**Short Notes:**

**(2x5=10)**

2. Describe hemodynamic events during cardiac cycle with suitable pressure volume curves. (3+2)
3. Describe transport of carbon-dioxide in blood and Haldane's effect. (3+2)

**Brief Notes:**

**(5x3=15)**

4. Actions of gonadotrophic hormones
5. Re-absorption of glucose in renal tubules
6. Pernicious anemia
7. Functions of bile
8. Refractory errors of eyes and their corrections.

**QP CODE:113002**

**Section B - BIOCHEMISTRY**

**Marks: 35**

**Essay:**

**(10)**

1. Discuss vitamin A under the following heads:
  - Sources
  - RDA
  - Functions
  - Deficiency manifestations

**Short Notes:**

**(2x5=10)**

2. What is the normal fasting blood glucose level. How it is regulated.
3. Differential diagnosis of jaundice.

**Brief Notes:**

**(5x3=15)**

4. ELISA
5. Gout
6. Fluoride
7. Metabolic acidosis
8. Nitrogen balance