Reg. No.:

First Year BDS Degree Examinations August 2017

General Human Physiology and Biochemistry

(2016 SCHEME)

Time: 3 Hours

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 natural mechanisms responsible for the arrest of bleeding from small blood vessel. Mention the principle of TWO tests of hemostasis. (8+2)

Short Notes:

- 2. Describe the events and control of second stage of deglutition.
- 3. Draw a diagram to show the innervation of urinary bladder. Explain micturition reflex.

Brief Notes:

- 4. Factors affecting cardiac output.
- 5. List TWO forms in which O₂ is transported in blood. Explain Bohr effect.
- 6. What is normal serum Ca²⁺ level. Actions of hormones responsible for calcium homeostasis.
- 7. Hormonal changes during menstrual cycle.
- 8. Name THREE ascending pathways of central nervous system. Mention ONE sensation carried by each pathway.

Section B - BIOCHEMISTRY QP CODE:113002 Marks: 35

Essay: (10)1. Describe the synthesis and utilization of ketone bodies. Add a note on ketoacidosis.(7+3) Short Notes: (2x5=10)2. Give an account of urea cycle 3. Describe the digestion and absorption of carbohydrates **Brief Notes:** (5x3=15) 4. Causes of jaundice 5. Creatinine clearance 6. Antibiotics interfering in transcription. 7. Specificity of enzymes

8. Functions of vitamin C

Max Marks: 70

(5x3=15)

(2x5=10)