Reg. No.:

First Year BDS Degree Regular/Supplementary Examinations January 2021

General Human Physiology and Biochemistry

(2016 Scheme)

Time: 3 Hours Max Marks: 70 Answer all questions to the point neatly and legibly • Do not leave any blank pages between • answers • Indicate the question number correctly for the answer in the margin space Answer all parts of a single question together • Leave sufficient space between answers 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 Marks: 35 Section A - Physiology Essay: (10)1. Name the hormones secreted by adrenal cortex. Describe the actions of glucocorticoids and describe the symptoms of Addison's disease. (3+4+3)Short Notes: (2x5=10)Draw and label normal ECG recorded from standard limb lead-II. Describe the causes for different waves and intervals. (2+3)3. Mechanism of concentration of urine in renal tubules. **Brief Notes:** (5x3=15) 4. Fine touch pathway 5. Compliance of lungs and thorax 6. Molecular mechanism of muscle contraction 7. Cephalic phase of gastric secretion 8. Accommodation reflex **QP CODE:113002 Section B - Biochemistry** Marks: 35 (10) Essay: 1. Trace the pathway of glycolysis. Add a note on its energetics. Short Notes: (2x5=10)2. Name the essential fatty acids. Enumerate their functions 3. How does kidney regulate acid base balance. **Brief Notes:** (5x3=15) How bilirubin is formed in the body. Competitive inhibition 6. Lesch-Nyhan syndrome 7. Transamination

8. Immunoglobulins
