



Reg. No.:

First Year BDS Degree Supplementary Examinations January 2019**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. What is erythropoiesis. Describe the stages and the factors influencing it. (1+6+3)

Short Notes:**(2x5=10)**

2. Describe oxygen dissociation curve.
3. Draw a labelled diagram of Juxta-glomerular apparatus. What are its functions.

Brief Notes:**(5x3=15)**

4. Functions of thalamus.
5. Define blood pressure and mention its normal values. List the determinants of blood pressure.
6. Factors regulating gastric emptying.
7. Surfactant.
8. Functions of estrogen.

QP CODE: 113002**Section B - Biochemistry****Marks: 35****Essay:****(10)**

1. Describe the steps of glycolysis. Add a note on energetics of aerobic glycolysis.

Short Notes:**(2x5=10)**

2. Formation and fate of ketone bodies
3. Urea cycle

Brief Notes:**(5x3=15)**

4. Lactose intolerance
5. Functions of calcium
6. Clearance tests
7. Gout
8. Functions of vitamin D

