

First Year BDS Degree Supplementary Examinations February 2018**General Human Physiology and Biochemistry****(2010 SCHEME)****Time: 3 Hours****Max Marks: 100**

- 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:102002**Section A - PHYSIOLOGY****Marks: 50****Essay****(14)**

1. Name the adrenal cortical hormones from different layers. Describe the action and regulation of hormones of zona fasciculata. Add a note on Cushing's syndrome.(3+8+3)

Short essays**(2x8=16)**

2. Define blood pressure and mention its normal values. Describe the short term regulation of blood pressure
3. Describe the pathway of pain from face.Explain referred pain with an example

Short notes**(5x4=20)**

4. Intrinsic mechanism of coagulation
5. Composition and functions of pancreatic juice
6. Transport of carbon dioxide in blood
7. Mechanism of formation of concentrated urine
8. Uterine changes during normal menstrual cycle

QP CODE:103002**Section B - BIOCHEMISTRY****Marks: 50****Essay****(14)**

1. Explain the structural organization of proteins. Name the bonds stabilizing protein structure. Add a note on protein denaturation. (8+2+4)

Short essays**(2x8=16)**

2. Explain the digestion and absorption of carbohydrates. Add a note on lactose intolerance.
3. Classify lipids with one example to each class

Short notes**(5x4=20)**

4. Effect of substrate concentration on enzyme activity.
5. Wald's visual cycle.
6. Metabolic acidosis.
7. Fluorine.
8. Gout.
