

First Year BDS Degree Supplementary Examinations July 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. Define glomerular filtration rate. Mention its normal value. Describe the factors influencing GFR. Add a note on measurement of GFR (1+1+8+4)

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

2. Composition and functions of saliva
3. Physiology of neuromuscular junction

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

4. Rh incompatibility
5. Jugular venous pulse
6. Surfactant
7. Functions of cerebrospinal fluid and its clinical significance
8. Refractive errors

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

1. Classify enzymes with examples. Explain the different types of enzyme inhibitions with suitable examples. (6+8)

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

2. Name the reducing sugars. Explain the reducing property of sugars. Name the test to detect reducing sugars
3. Name the ketone bodies. How these ketone bodies are formed in our body. Mention two conditions when there is excess formation of ketone bodies.

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

4. Mention the biological functions, deficiency and toxic manifestations of fluoride.
5. Briefly explain the role of kidney in the regulation of acid base balance of our body.
6. Explain the transmethylation reaction with four examples of important products formed.
7. Mention the different types of RNA. Draw the structure of tRNA and indicate the functions of each arm of tRNA
8. Mention any four tests to assess the functions of liver and the clinical significance of these tests.