Reg. No.:

First Year BDS Degree Supplementary Examinations September 2021

General Human Physiology and Biochemistry

(2016 Scheme)

Time: 3 Hours

Max Marks: 70

(2x5=10)

(5x3=15)

- 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	Section A - Physiology	Marks: 35
Essay:		(10)

1. Mention the normal fasting blood glucose level. Explain the role of insulin in maintaining glucose homeostasis. Mention the clinical features of diabetes mellitus. (1+6+3)

Short Notes:

- 2. Describe the steps involved in transmission of impulses across neuromuscular junction in skeletal muscle with a flow chart.
- 3. Draw a neat labelled diagram of lead II electrocardiogram. Mention the underlying electrical activity for genesis of different waves.

Brief Notes:

4. Timed vital capacity

- 5. Three functions of plasma proteins
- 6. Presbyopia and its correction.
- 7. Thermoregulatory responses while body is exposed to cold environment.
- 8. Define reflex and draw a labelled diagram of reflex arc.

QP CODE:113002 Essay:	Section B - Biochemistry	Marks: 35 (10)	
1. Describe the substrates,	organs involved and steps of gluconeogenesis.	(3+7)	
Short Notes:		(2x5=10)	
 Describe competitive inhi Give an account of HDL r 	bition of enzymes citing examples netabolism		
 Brief Notes: 4. List the causes of hyperu 5. Functions of iron 6. Functions of vitamin K 7. Lactose intolerance 8. Compounds derived from 		(5x3=15)	
