

**FIRST BDS DEGREE SUPPLEMENTARY EXAMINATIONS, FEB- 2012****GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY****Time: 3 Hours****Total Marks: 100**

- Answer all questions
- Draw Diagrams wherever necessary
- Write Section A and Section B in separate answer Books.
Do not Mix up questions from Section A and Section B.

QP CODE:1202**PHYSIOLOGY - SECTION A****Essay:****(1 x 10=10)**

1. Describe the constituents and functions of gastric juice. Explain the gastric phase of gastric juice secretion (3+3+4=10)

Short notes:**(5x5=25)**

2. Name the hormones that regulate blood calcium level. Give the actions of any one of them.
3. Explain the Nerve supply to urinary bladder.
4. Oxygen hemoglobin dissociation curve and shift to the right.
5. Factors regulating erythropoiesis.
6. Pathways for touch sensation from face and trunk

Answer briefly :**(5x3=15)**

7. Explain the functions of the middle ear
8. Gigantism and cretinism
9. Hypothalamo-pituitary axis
10. Heart sounds
11. Corpus Luteum

QP CODE:1302**BIOCHEMISTRY - SECTION B****Essay:****(1 x 10=10)**

1. Explain the process of glycogenesis and glycogenolysis. Add a note on its regulation.

(4+4+2=10)**Short notes:****(5x5=25)**

2. With the help of neat diagram explain the absorption of aminoacids from GIT
3. Classify enzymes giving one example to each class.
4. How calcitriol is synthesized in the body.
5. Define tumor markers. Give four examples and their significance.
6. Describe the components of electron transport chain.

Answer briefly :**(5x3=15)**

7. What is the normal serum urea level. Name three conditions in which it increases.
8. Von Gierke's disease
9. Detoxification of benzoic acid
10. Codons
11. Structure of collagen

