

[LC 653]

FEBRUARY 2013

Sub. Code: 4169

**FIRST YEAR B.D.S. DEGREE EXAM  
PAPER II – GENERAL HUMAN PHYSIOLOGY  
AND BIOCHEMISTRY**

*Q.P.Code: 544169***Time: 180 Minutes****Maximum: 70 Marks**

**Draw Suitable diagrams wherever necessary  
Answer Section A and B in Separate Answer Books**

**SECTION –A  
(HUMAN PHYSIOLOGY)**

**I. Elaborate on:** (1x10=10)

1. Define Glomerular Filtration Rate (GRF). What is the normal value?  
Discuss the various factors regulating GFR.

**II. Write notes on:** (5x5=25)

1. Movements of small intestine.
2. Functions of skin
3. Reticulo- endothelial system (RES)
4. Formation and functions of surfactant
5. Properties of cardiac muscle.

**SECTION –B  
(BIOCHEMISTRY)**

**I. Elaborate on:** (1x10=10)

1. Explain transamination and deamination for the liberation of ammonia and urea cycle for its utilization. Add a note on the regulation of urea cycle.

**II. Write notes on:** (5x5=25)

1. Functions, sources and diseases of Vitamin D
2. Factors regulating plasma calcium level
3. Essential amino acids
4. Classification of mutations with examples
5. Kidney function tests

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