

[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
