

Roll No.

--	--	--	--	--	--	--	--	--	--

M.B.B.S.

First Professional Examination, July 2015

Physiology –I

Time: Three Hours]

[Maximum Marks: 50

Note: Attempt all questions. Use separate answer sheets for part A & Part B. Parts of a question must be attempted in sequence. Draw well labeled diagram wherever necessary.

Section –A

1. Define Blood pressure. Explain short term regulation of Blood pressure. [2+8]
2. Write short notes on-- [5x3]
 - a. Immunity.
 - b. Blood group.
 - c. Surfactant and its significance.

Section –B

1. Define countercurrent system. Describe how countercurrent mechanism produce Hypertonic and Hypotonic urine. [2+8]
2. Write short notes on-- [5x3]
 - a. Oxygen- Haemoglobin dissociation curve and factors affecting it.
 - b. Mechanism of Fat digestion and absorption.
 - c. Resting membrane potential.

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

M.B.B.S.

First Professional Examination, July, 2015

Physiology –II

Time: Three Hours]

[Maximum Marks: 50

Note: Attempt all questions. Use separate answer sheets for part A & Part B. Parts of a question must be attempted in sequence. Draw well labeled diagram wherever necessary.

Section –A

1. Enumerate Adrenocortical hormones. Describe the functions of Glucocorticoid. [2+6]
2. Write in brief about – [2x4]
 - a. Functions of Placenta.
 - b. Regulation of Spermatogenesis.
3. Differentiate between: [3x3]
 - a. Single and Multiunit Smooth muscle.
 - b. Red and White Skeletal muscle fibers.
 - c. Isotonic and isometric contraction of muscle.

Section –B

1. Draw a labeled diagram of dorsal column lemniscal system. Enumerate the sensations carried by it. Describe the properties of this pathway. [4+4]
2. Describe – [2x4]
 - a. Taste buds and perception of this sensation through its tracts.
 - b. Visual acuity and discuss the factors affecting it.
3. Write short notes on – [3x3]
 - a. Properties of synapse
 - b. Parkinson's disease
 - c. Stretch reflex.