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Paper Code: MBBS -103

Roll No.

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M.B.B.S.
First Professional Examination (Main), Aug. 2019
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.

MCQs (separate sheet will be provided)

10 Marks

Section –A

1. Explain the physiological processes involved in the chemical regulation of respiration. [8]
2. Write short notes on – [3x4]
 - a) Surfactant and its significance
 - b) Heterometric regulation of cardiac output
 - c) Rh incompatibility
 - d) Fat digestion in GI Tract

Section –B

1. Define pH? Name the tubular buffers and describe the role of kidney in pH regulation. [8]
2. Write short notes on - [4x3]
 - a) Starling forces in capillary fluid exchange
 - b) Decompression sickness
 - c) Action potential of ventricular myocardium

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Paper Code: MBBS -104

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M.B.B.S.
First Professional Examination (Main), Aug. 2019
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.

MCQs (separate sheet will be provided)

10 Marks

Section –A

1. Describe structural organization of skeletal muscle. Discuss in detail various steps involved in the process of muscle excitation, contraction and relaxation, when stimulated by a nerve. [3+5]
2. Write the patho-physiology of the following - [3x2]
 - a) Parkinsonism
 - b) Cushing's syndrome
3. Draw well labelled, neat and colored diagrams of the following - [3x2]
 - a) Optic pathway and its lesions
 - b) Organ of Corti

Section –B

1. Describe in detail menstrual cycle and role of various hormones in its regulation. [5+3]
2. Compare & contrast in a tabular format - [3x2]
 - a) Stretch reflex & Inverse stretch reflex
 - b) Acromegaly & Gigantism
3. Write short notes on - [3x2]
 - a) Sensory receptors
 - b) Tetany
