

## First M.B.B.S. Examination

## Physiology

## Paper-II

Date : 07-01-2019, Monday]

[Max. Marks : 50

[Time : 3 Hours

- Instructions :** (1) Answer to the point.  
(2) Figure to the right indicates marks.  
(3) Draw diagrams wherever necessary.  
(4) Write legibly.  
(5) Use separate answer books for each section.

**Section – I**

- Q 1. Write briefly on only two 2x5=10  
a. Peptic Ulcer: Definition, Causes and Mucosal Protective Mechanisms  
b. Diabetes Mellitus: Definition, Causes and Hormonal Regulation of Glucose Metabolism  
c. Diseases of Neuromuscular Junction
- Q 2. A) Write briefly on only two 2x3=6  
a. Hypothalamo - Hypophyseal Axis  
b. Action of Thyroid Hormone on Growth and Development  
c. Regulation of Glucocorticoid Secretion  
B) Write briefly on any one 1x3=3  
a. Role of Oxytocin in Parturition  
b. Actions of Testosterone
- Q 3. Write briefly on only two 2x3=6  
a. Functions of Liver  
b. Nerve Supply of GIT  
c. Vomiting Mechanism

**Section – II**

- Q 4. Write briefly on only two 2x5=10  
a. Properties of Receptors  
b. Muscle Spindle: Structure and Function  
c. Differences between UMN lesion and LMN Lesion.
- Q 5. A) Write briefly on only two 2x3=6  
a. Differences Between Rods and Cones  
b. Functions of Middle Ear  
c. Structure of A Taste Bud  
B) Write briefly on any one 1x3=3  
a. Motor Unit  
b. Molecular Basis of Smooth Muscle Contraction
- Q 6. Describe Briefly in 2-3 sentences (any six): 6x1=6  
a. Basal Electrical Rhythm  
b. Steatorrhoea  
c. Dale's Vasomotor Reversal  
d. Tympanic Reflex  
e. Presbyopia  
f. Referred Pain  
g. Dwarfism  
h. Night Blindness