

**M.B.B.S. DEGREE EXAMINATION**  
(For the candidates admitted from the Academic Year 2019-2020)  
**FIRST YEAR**  
**PAPER I – PHYSIOLOGY**

*Q.P. Code: 526053*

**Time: Three hours**

**Maximum : 100 Marks (80 Theory + 20MCQs)**

**Answer All Questions**

**I. Essay:**

**(2 x 15 = 30)**

1. Describe the function and regulation of Insulin .Add a note on diabetes mellitus.
2. Explain the sliding filament hypothesis. Add a note on isometric and isotonic muscle contractions.

**II. Short Notes :**

**(10 x 5 = 50)**

1. Second messengers.
2. Types of lymphocytes and its functions.
3. Haemophilia.
4. Describe the phases of gastric juice secretion.
5. Functions of bile salts.
6. Renal Buffers.
7. Auto regulation of GF
8. Calcitriol.
9. Contraceptive methods for males.
10. Phases of Menstrual cycle.