

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MBBS 0323]**

**MARCH 2023**

**Sub. Code : 6053**

**M.B.B.S. DEGREE EXAMINATION**

**(For the candidates admitted from the Academic Year 2019-2020)**

**FIRST YEAR – SUPPLEMENTARY (CBME)**

**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. Mention various steps of Hemostasis. Explain in detail how bleeding is arrested through intrinsic system of coagulation. Add a note on Hemophilia.
2. Name the different hormones secreted by Islets of Langerhans. Explain in detail about the chief hypoglycemic hormone. Enumerate the consequences of Insulin deficiency.

**II. Write Short Notes on:**

**(10 x 5 = 50)**

1. Primary active transport.
2. Indications and complications of blood transfusion.
3. Describe the structure of Sarcomere and the contractile proteins.
4. Myasthenia Gravis.
5. Explain the mechanism of gastric secretion.
6. Enterohepatic circulation.
7. Cushing syndrome.
8. Mechanism of ovulation.
9. Autoregulation of glomerular filtration rate and renal blood flow.
10. Transport characteristics of the late distal tubule and cortical collecting tubule.

\*\*\*\*\*