

M.D. DEGREE EXAMINATION

BRANCH V – PHYSIOLOGY

**PAPER I – GENERAL PHYSIOLOGY, BLOOD, DIGESTION AND
TISSUES OF THE BODY**

Q.P. Code :202018

Time : Three Hours

Maximum : 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. Describe in detail about the molecular basis of skeletal muscle contraction. Add a note on muscle fatigue.
2. Discuss in detail about the membranous structures of the cell. Add a note on micro RNA.

II. Short notes:

(10 x 5 = 50)

1. Neurotransmitters in the gastro intestinal tract.
2. Movements in the colon.
3. Oesophageal phase of deglutition.
4. Iron metabolism.
5. Muscle channelopathies.
6. Complement system.
7. Platelet structure and its functions.
8. Gall stone formation.
9. Fibrinogen.
10. Cell adhesion molecules.

III. Reasoning Out:

(4 x 5 = 20)

1. The correction of disorders in Water balance is necessary. Explain.
2. Large intestine is vulnerable to malignancy.
3. Role of monocytes, T lymphocytes and platelets in Atherosclerosis.
4. Saliva is a useful non-invasive tool in diagnosis of disease and monitoring of health.
