

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

[AHS 0423]

APRIL 2023

Sub. Code: 2731

B.OPTOM

FIRST YEAR (Regulation 2018-2019 onwards)

PAPER I-GENERAL ANATOMY, GENERAL PHYSIOLOGY

Q.P. Code: 802731

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe the location, structure of different types of Epithelial tissue.
2. Describe the anatomy of Female Reproductive System.
3. Classify the Hormones secreted by Adrenal cortex. Explain the actions and regulation of Secretion of Glucocorticoids.

II. Write notes on:

(8 x 5 = 40)

1. Fluid mosaic model of Cell membrane.
2. Enumerate the functions of Cerebral cortex.
3. How is CO₂ transported in blood?
4. Mechanism of Hydrochloric acid secretion in stomach.
5. Describe the functions of Placenta.
6. Describe the anatomy of the spleen.
7. Describe the location, anatomy of the esophagus.
8. Describe the anatomy of the ear.

III. Short answers on:

(10 x 3 = 30)

1. Megaloblastic anemia.
2. Name the parts of large intestine.
3. Name the layers of Heart wall.
4. Trace the olfactory pathway.
5. Micturition reflex.
6. Name the types of Muscle tissue.
7. Name the bones of the Axial skeleton.
8. Anatomical Planes through the human body.
9. Mention the properties of Cardiac muscle.
10. Steps in Phagocytosis by Neutrophil.
