

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

[AHS 0321]

**MARCH 2021**

**Sub. Code: 2731**

**(AUGUST 2020 EXAM SESSION)**

**B.OPTOM**

**FIRST YEAR (Regulation 2018-2019)**

**PAPER I – GENERAL ANATOMY, GENERAL PHYSIOLOGY**

***Q.P. Code : 802731***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define blood pressure and pulse pressure. Explain in details about factors regulating blood pressure.
2. Describe in details about the position, parts, capsules, relations, histology and blood and nerve supply of thyroid gland.
3. Define monarchy. Explain in detail about the uterine and ovarian changes of menstrual cycle.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Classification and functions of leukocyte.
2. Secondary active transport.
3. Electrocardiogram.
4. Lung volumes and capacities.
5. Juxtaglomerular apparatus
6. Uterine ligaments and their functions.
7. Lacrimal apparatus
8. Parts, histology and functions of gall bladder

**III. Short answers on:**

**(10 x 3 = 30)**

1. Mention the functions of liver.
2. Functions of insulin.
3. Functions of cerebrospinal fluid.
4. Mention the refractive errors of eyes.
5. Mention the functions of platelets.
6. Draw and label the conductive system of heart.
7. Tracheobronchial tree.
8. Types and functions of neuroglial cells.
9. Histology of spleen.
10. Types of cells in connective tissues.

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