

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

[BOT 0321]

**MARCH 2021
(AUGUST 2020 EXAM SESSION)
BOT DEGREE EXAMINATION
FIRST YEAR**

Sub. Code: 6173

(New regulations for the candidates admitted from 2014-2015 onwards)

PAPER III – PHYSIOLOGY

Q.P. Code: 786173

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on: (2 x 20 = 40)

1. What is Glomerular Filtration Rate? Describe in detail the factors affecting it? Add a note on its estimation.
2. Name the hormones involved in menstrual cycle. Describe the changes in uterus and ovary during different phases of menstrual cycle.

II. Write notes on: (8 x 5 = 40)

1. Lung volumes and Capacities.
2. Hormones secreted by kidney.
3. Composition and functions of Pancreatic juice.
4. Factors that affect Cardiac output.
5. Write about Spermatogenesis.
6. Properties of Cardiac Muscle.
7. Functions of Cerebellum.
8. Write about Hemophilia.

III. Short answers on: (10 x 2 = 20)

1. Functions of gastric juice secretion.
2. Define blood pressure.
3. Packed cell volume.
4. What is dead space ?
5. Write about Acromegaly.
6. Myasthenia gravis.
7. Saltatory conduction.
8. Pupillary reflex.
9. Functions of Testosterone.
10. Active transport.
