

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

[MD 0522]

MAY 2022

Sub. Code: 2090

**M.D. DEGREE EXAMINATION
BRANCH XXIII – ANATOMY
PAPER II – EMBRYOLOGY AND GENETICS**

Q.P. Code: 202090

Time : Three Hours

Maximum: 100 Marks

I. Essay:

(2 x 15 = 30)

1. Write in detail about development of Uterus.
2. Write an essay about development of Ear.

II. Short notes:

(10 x 5 = 50)

1. Descent of Testis.
2. Pedigree chart.
3. Cloning.
4. Ventral meso gastrum.
5. Development of male urethra.
6. Cleft palate.
7. Gene therapy.
8. Amnion.
9. Development of inter arterial septum.
10. Meiosis.

III. Reasoning Out:

(4 x 5 = 20)

State whether each of the following statement is TRUE or FALSE and reason out.

1. Meso nephric duct gives rise to seminal vesicles.
2. Centromere is a specialized DNA sequence in a chromosome that holds two daughter chromatids.
3. During gastrulation and neurulation the Hensens node undergoes caudal to rostral movement as embryo elongates.
4. In Spermatozoa the tail is about 50um in length.
