

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

[MD 0723]

JULY 2023

Sub. Code: 2090

(MAY 2023 EXAM SESSION)

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 an essay on the Aortic arches and the associated anomalies.
2. Describe the development of the Kidneys and anomalies.

II. Short notes:

(10 x 5 = 50)

1. Development of portal vein.
2. Axis arteries of upper and lower limbs.
3. Development of ventricles of heart.
4. Oogenesis
5. Regulator genes.
6. Placental barrier
7. Derivatives of paraxial mesoderm.
8. Suprarenal gland development.
9. Super female.
10. Twinning.

III. Reasoning Out:

(4 x 5 = 20)

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

1. Genes occupy the whole length of the chromosomes including the primary and secondary constrictions.
2. The rhombic lip is the dorsolateral expansion of basal lamina of metencephalon.
3. The substantia propria of the cornea is developed from the surface ectoderm.
4. The first commissure to appear is the corpus callosum in the 3rd month of intrauterine life.
