

**Anatomy**

1. Describe spleen under the following headings: a) Microanatomy b) Development c) Splenic circulation
2. a) Down syndrome b) Karyotyping
3. Write the embryological basis of the following: a) Horse shoe kidney b) Tracheo-esophageal fistula
4. Draw labeled diagram to depict cross-sectional anatomy of spinal cord at the following level: a) Cervical b) Thoracic c) Lumbar d) Sacral
5. Describe tongue under the following headings: a) Development b) Microanatomy
6. a) PET scan b) Hysterosalpingography
7. Describe cardiac muscle under the following headings: a) Microstructure b) Ultrastructure
8. Describe the development of the following structures: a) Inter-atrial septum b) Uterus
9. a) Draw a labeled diagram to show the microscopic structure of testes. b) Spermatogenesis and spermiogenesis.
10. Describe placenta under the following headings: a) Development – Add a note on anomalies. b) Histology – Add a note on placental circulation.