

ANATOMY

PAPER – I

Time : 3 hours
Max. Marks : 100

ANT/D/17/02/I

Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. Describe spleen under the following headings: 4+3+3
a) Microanatomy
b) Development
c) Splenic circulation
2. a) Down syndrome 5+5
b) Karyotyping
3. Write the embryological basis of the following: 5+5
a) Horse shoe kidney
b) Tracheo-esophageal fistula
4. Draw labeled diagram to depict cross-sectional anatomy of spinal cord at the following level: 2.5x4
a) Cervical
b) Thoracic
c) Lumbar
d) Sacral
5. Describe tongue under the following headings: 5+5
a) Development
b) Microanatomy
6. a) PET scan 5+5
b) Hysterosalpingography
7. Describe cardiac muscle under the following headings: 5+5
a) Microstructure
b) Ultrastructure
8. Describe the development of the following structures: 5+5
a) Inter-atrial septum
b) Uterus

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9. a) Draw a labeled diagram to show the microscopic structure of testes. 5+5
b) Spermatogenesis and spermiogenesis.
10. Describe placenta under the following headings: 5+5
a) Development – Add a note on anomalies.
b) Histology – Add a note on placental circulation.
