

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

P.T.O.

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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.
