

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:

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

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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. | |
