

**ANATOMY**  
**PAPER-I**

Time: 3 hours  
Max. Marks: 100

ANT/D/19/02/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 the Testes under the following headings: 4+3+3
  - a) Microanatomy.
  - b) Development & descent.
  - c) Congenital anomalies.
2. Describe Fertilization in detail. Add a note on its applied aspects. 6+4
3. Describe development of inferior vena cava. Add a note on congenital anomalies of inferior vena cava. 7+3
4.
  - a) Ultrastructure of Alveolar cells.
  - b) Microanatomy of Cerebellum.5+5
5. Describe the development of Palate. Add a note on various developmental anomalies of palate. 6+4
6. Describe the Thyroid gland under the following headings: 4+4+2
  - a) Microanatomy.
  - b) Development.
  - c) Developmental anomalies.
7.
  - a) Microanatomy of Thymus.
  - b) Development of Arch of Aorta.5+5
8. Describe the development of the Inter- Atrial septum. Add a note on the congenital anomalies. 7+3
9.
  - a) Embryological basis of Neural Tube defects.
  - b) Microstructure of Mammary Gland.5+5
10.
  - a) Juxta glomerular apparatus.
  - b) Intercalated disc.5+5

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