

**ANATOMY**

**PAPER-II**

ANT/D/18/02/II

Time: 3 hours  
Max. Marks:100

**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 hippocampus under the following headings: 5+5
  - a) Connections.
  - b) Functions.
2. Describe the reticular formation under the following headings: 5+5
  - a) Nucleus.
  - b) Connections.
3. Describe the thalamus under following headings: 5+5
  - a) Nucleus.
  - b) Connections.
4.
  - a) Cerebellar glomerulus. 5+5
  - b) Anterior choroidal artery.
5.
  - a) Hox gene. 5+5
  - b) Restriction fragment length polymorphism.
6.
  - a) Sex linked inheritance. 5+5
  - b) Classification of chromosomes.
7.
  - a) Frontal eye fields. 5+5
  - b) Circumventricular organs.
8.
  - a) Connections of red nucleus. 5+5
  - b) Medial longitudinal fasciculus.
9.
  - a) Fluorescent-in-situ-hybridization. 5+5
  - b) Lateral lemniscus.
10. Describe the Oculomotor nerve under following headings: 2+4+4
  - a) Origin.
  - b) Course.
  - c) Branches.

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