

ANATOMY PAPER-I

ANT/D/14/02/I

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.	Development and congenital anomalies of the vertebral column.	6+4
2.	Development and microanatomy of urinary bladder.	5+5
3.	Blood-air barrier and its modifications in the respiratory tract epithelium in relation to its function.	10
4.	Development and congenital anomalies of inferior vena cava. Add a note on retrocaval ureter.	(4+4)+2
5.	Describe the phenomenon of compaction and the pathways of determination for normal development. Add a note on molecular regulation of these events.	(4+4)+2
6.	Microstructure of hairy skin & pilo-sebaceous unit.	6+4
	Development of conotruncal swellings, especially with reference to the congenital septal defects of heart.	6+4
8.	Structure and function of mitochondria. Add a note on special staining procedure for mitochondria.	6+4
9.	Enumerate the radioimaging techniques for (a) visualization of gastrointestinal tract. (b) Draw diagram(s) to show the supracolic compartment of abdomen.	4+6
10.	Describe the formation and circulation of lymphocytes in the body and their role in the immune system. Enumerate various subtypes of T-lymphocytes and their role in immune mechanism.	6+4
