FINAL EXAM
DECEMBER 2015

ANATOMY
PAPER – I

ANT/D/15/02/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. Chronological events happening during “Gastrulation” and its molecular regulation. 7+3

2. Development of para mesonephric duct and its associated anomalies. 6+4

3. a) Development of subclavain arteries. 5+5
   b) Mechanism of development of retropharyngeal right subclavain artery.

4. a) Rotation of midgut loop. 6+(2+2)
   b) Give the adult picture of following rotational events:
      i. Non rotation.
      ii. Rotation through 90º anti-clockwise.

5. Development and microanatomy of palatine tonsil. 4+6

6. a) Describe the gastric glands. 7+3
   b) Special stains that help indentify various cell types of gastric glands.

7. a) Structure of juxtaglomerular apparatus in kidney. 6+4
   b) What is its functional significance?

8. Microanatomy of hypophysis cerebri and functions of its cell types. 7+3

9. Endochondral ossification along with its molecular regulation. 7+3

10. a) Radiological techniques for visualization of biliary system. 6+4
    b) Draw a labeled diagram to illustrate the cross sectional anatomy at the level of lower border of 4th thoracic vertebra.