

FINAL EXAM
DECEMBER 2016

NATIONAL BOARD OF EXAMINATIONS

ANATOMY
PAPER – I

ANT/D/16/02/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. a) Histological structure of pulmonary alveolus. 6+4
b) Histological basis of respiratory distress syndrome.
2. a) Write the general plan of microstructure of gastro-intestinal tract. 5+5
b) Correlate the regional modifications with functions.
3. a) Development of thoraco-abdominal diaphragm. 5+(3+2)
b) What are its developmental defects and their effects on surrounding structures?
4. Development and microanatomy of urinary bladder. 5+5
5. a) Define neurulation. 2+(4+4)
b) Molecular regulation involved in formation of neural tube. Add a note on neural tube defects.
6. Microscopic structure of hepatic lobule, portal lobule and portal acinus. 4+3+3
7. Microstructure of filtration apparatus of the kidney. 10
8. a) What is magnetic resonance imaging? 3+(4+3)
b) Enumerate its advantages and disadvantages.
9. a) Draw a labeled diagram to illustrate cross sectional anatomy at the level of 3rd thoracic vertebra. 6+4
b) Embryological basis of epispadias.
10. a) Turner's syndrome 5+5
b) Lyon's hypothesis
