

**Q.P. Code: 101001**

**Reg. no.: .....**

**First Professional MBBS Degree Examinations, August 2013**

**ANATOMY- PAPER I**

**Time: 3 Hours**

**Total Marks: 50**

- Answer all questions
- Draw diagrams wherever necessary

**Long essay**

**(10)**

1. A 52 year old man presented with shortness of breath and coughing up small volumes of blood. Clinical examination revealed multiple dilated veins around the neck. A chest x-ray demonstrated a tumor mass involving the upper part of right lung and elevated right dome of diaphragm. Based on your anatomical knowledge answer the following questions.
- Compression of which structure in the chest by the tumor is responsible for dilated veins around the neck.
  - Mention the extent and relation in the mediastinum
  - Briefly describe the other structures related to the mediastinal surface of the right lung.
  - Injury to which structure is responsible for elevated diaphragm on the right side
  - Briefly describe the broncho-pulmonary segments of lungs and its applied importance.
- (1+2+3+1+3=10)

**Short essay**

**(3x5=15)**

2. Hip joint – articular surfaces, capsule and ligaments, muscles involved in appropriate movements of the joint
3. Inter muscular spaces of scapular region – boundaries & contents and applied anatomy.
4. Intra embryonic mesoderm – formation, parts and derivatives.

**Short notes**

**(5x3=15)**

5. Fertilization.
6. Hamstring's muscles.
7. Left coronary artery.
8. Axillary lymph nodes.
9. Interosseus muscles of hand.

**Short answers**

**(3x2=6)**

10. Greater sciatic foramen
11. Klienfelter's syndrome.
12. Microscopic structure of hyaline cartilage.

**Draw diagram**

**(2x2=4)**

13. Brachial plexus.
14. Longitudinal arches of foot.

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