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First Professional MBBS Degree Examinations, August 2012

**ANATOMY- PAPER I**

**Time: 3 Hours** **Total Marks: 50**

- Answer all questions
- Draw diagrams wherever necessary

**Long essay** **(10)**

1. A football player fell heavily and dislocated his right shoulder joint while playing. A collar and cuff support was given, after reducing the dislocation. Subsequently an orthopedic surgeon noticed that his right shoulder was less prominent than the left. The player was finding it difficult to abduct the arm to the horizontal level. Based on your anatomical knowledge answer the following questions:
   - What anatomical features make the shoulder joint particularly prone to dislocation
   - Briefly describe the most stabilizing structure of the joint and why the head of the humerus is often displaced downwards.
   - In this case, what is the cause of subsequent flattening of the right shoulder and the difficulty in abducting the arm to a horizontal level.
   - Briefly mention the ligaments and the muscles acting at the shoulder joint.

(2+2½+1+4½=10)

**Short essay** **(3x5 =15)**

2. Coronary arteries
3. Sciatic nerve: formation, course and branches
4. Longitudinal arches of foot

**Short notes** **(5x3=15)**

5. Neural tube
6. Microscopic structure of hyaline cartilage and its locations.
7. Flexor retinaculum of hand: attachments, relations, functions and applied aspect
8. Great saphenous vein: formation, course, termination and applied aspect
9. Broncho pulmonary segments

**Short answer** **(3x2=6)**

10. Linea aspera
11. Parts and branches of axillary artery
12. Interossei of hand

**Draw diagrams** **(2x2=4)**

13. Cross section of thorax at the level of sternal angle
14. Boundaries and contents of femoral triangle.

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