# First Year MBBS

Physiology II

# Summer 2016

1. **Section B: SAQ (6 x 4 = 24)**

**Short answer questions (Any six out of seven):**

1. Define homeostasis. Compare between feedback systems with examples.
2. Draw a well labelled diagram of JG apparatus. Explain its functions.
3. Write a note on excitation-contraction coupling.
4. Enumerate properties of receptor. Describe any two properties in detail.
5. Draw a well labelled diagram of visual pathway. Explain various lesions in it.
6. What are different types of pain? Write a note on referred pain.
7. Define action potential. Compare ionic basis of action potential of large myelinated nerve fiber and sinoatrial node.
8. **Section C: (LAQ) (2 x 8 = 16)**

**Long answer question (Any two out of three):**

1. Enumerate ascending tracts. Describe the origin, course, termination of the dorsal column system. Add a note on phantom limb.
2. Describe in detail about transport mechanism across cell membrane with appropriate examples.
3. What is coagulation? Draw in detail flow chart of coagulation pathway. Compare differences between the bleeding and clotting disorder with examples.