

# Rajiv Gandhi University of Health Sciences

Final Year M.D / M.S (Unani) Degree Examination - OCT-2019

[Time: 3 Hours]

[Max. Marks: 100]

**ILAJ BIT TADBEER - PAPER I**  
**MECHANICI HAYATIYAT**  
**(BIOMECHANICS)**  
**Q.P. CODE: 6015**

Your answers should be specific to the questions asked.  
Draw neat, labeled diagrams wherever necessary.

**LONG ESSAY**

**2 X 20 = 40 Marks**

1. Explain the General muscle structure and physiology with emphasis on neuromuscular junction, sliding filament theory and action potential.
2. Describe the phases of gait cycle, determinants of gait any three gait abnormalities.

**SHORT ESSAY**

**6 X 10 = 60 Marks**

3. What is a Claw hand? Add a note on nerve and muscles involved.
4. Describe Types of muscle contraction. Mention the agonist and antagonists in elbow and knee joint respectively.
5. Define Lever systems with examples in human body.
6. Mention any two disease conditions which cause footdrop. Mention the peripheral nerve and muscle involved in case of LMN lesion. Make a note on the orthotic aid that can be prescribed.
7. Write down Safe lifting technique with implication of biomechanics.
8. What is Pathomechanics and disease process of intervertebral disc prolapse? Explain appropriately.

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