

# **2012 Scheme**

**Q.P.Code 113014**

**Reg. No.:.....**

**First Year BPT Degree Supplementary Examinations December 2024**

## **Biomechanics and Kinesiology**

**Time : 3 hrs**

**Max marks : 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

### **Essays:**

**(2x14=28)**

1. Describe the structures comprising extensor mechanism. Write in detail about the extensor mechanism of hand
2. Define levers. Classify levers with examples and diagrams

### **Short notes:**

**(4x8=32)**

3. Classify synovial joints in detail
4. Palmar arches
5. Kinetics and kinematics of knee joint and add a note on stabilizers of knee joint
6. Define pulley and enumerate various pulleys present in human body

### **Answer briefly:**

**(10x4=40)**

7. Creep and relaxation
8. Axis and planes
9. Spurt and shunt muscles
10. Stress strain curve
11. Grass hopper eye patella
12. Various methods of analysis of posture
13. Functions of ligaments of ankle joints
14. Angular velocity
15. Structure and function of radio ulnar joint
16. Delayed onset muscle soreness

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