

**Q.P.Code 113014**

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

**First Year BPT Degree Supplementary Examinations February 2019**

**Biomechanics and Kinesiology**

**(2012 - Scheme)**

**Time : 3 hrs**

**Max marks : 100**

- **Answer all questions**
- **Draw diagrams wherever necessary**

**Essays:**

**(2x14=28)**

1. Discuss the structure and functions of plantar arches and deviations from normal.
2. Discuss in detail the features, kinetics and kinematics of gait with a note on movement analysis

**Short notes:**

**(4x8=32)**

3. Joint design and materials used in human joint.
4. Effects of immobilization and injury to muscles
5. The structure and function of vertebral column
6. Structure of shoulder joint

**Answer briefly:**

**(10x4=40)**

7. Coverings of a muscle
8. Concurrent force system
9. First order lever
10. Moment arm
11. Metatarsal break
12. Dynamic posture
13. Intrinsic plus hand
14. Pes cavus
15. Double support
16. Lumbar pelvic rhythm

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