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First Year BPT Degree Examinations August 2017

Paper III – Biomechanics and Kinesiology (2016 Scheme)

Time: 3 hrs Max marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays (2x15=30)

1. List out the joints forming the shoulder complex. Explain the kinematics of glenohumeral joint.

2. Define gait. Discuss the kinetics and kinematics of normal gait.

Short Essays (4x10=40)

- 3. Analyze the various types of grips and pinches. Describe the movement occurring in the relevant joints.
- 4. Enumerate the various types of joints. Explain in detail each type giving example.
- 5. Describe the articulations in the knee joint. Explain the screw home mechanism.
- 6. Explain the types of muscle fibers and its function. Describe the type of muscle contraction with suitable examples.

Short Answers (10x3=30)

- 7. Stress strain curve.
- 8. What is closed packed position. Give one example.
- 9. Define cadence, the angle of toe out, gait speed.
- 10. Movements of the temporomandibular joint.
- 11. Nutation and counter nutation.
- 12. Lumbar pelvic rhythm.
- 13. Metatarsal break.
- 14. Define synergist and antagonist.
- 15. Convex-concave rule.
- 16. Movements of rib cage during ventilation.
