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Q.P. Code: 201014 (Old Scheme)

Reg. No.:....

Second Year BPT Degree Supplementary Examinations March 2019

Biomechanics

(2010 Scheme)

Time: 3 hrs

- Answer all questions
- Draw diagrams wherever necessary

Essays

1. Define gait. Classify gait cycle and its sub phases. Discuss movements of the ankle joint during stance phase of the gait cycle

2. Explain forces on the hip joint during unilateral stance

Short notes

- 3. Discuss postural analysis in the sagittal plane
- 4. Describe the articulation of the transverse tarsal joints
- 5. Explain the role of patella in knee extension
- 6. Define passive insufficiency. Give one example
- 7. Discuss movements of the pelvis
- 8. Explain structure of the radioulnar joints
- 9. Explain arches of the hand and its function
- 10. Describe the articulating surfaces of the elbow
- 11. Explain the ligaments of the glenohumeral joint
- 12. Describe the motions at the temporomandibular joints

Answer briefly

- 13. Define pes cavus
- 14. Pronation twist
- 15. What is Q angle
- 16. What are the attachments of the transverse carpal ligament
- 17. Define closed kinematic chain
- 18. What is an isometric I exercise
- 19. What are parallel forces
- 20. Define power grips
- 21. Centre edge angle of the acetabulum
- 22. Lateral ligaments of the ankle joint

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(10x5=50)

(2x10=20)

Max marks: 100

(10x3=30)