



**J-M201919**      Seat No. \_\_\_\_\_  
**Second Year B.P.T. Examination**  
**July - 2019**  
**Kinesiology**  
*(New Course)*

Time : 3 Hours]

[Total Marks : 80

**Instructions :**

1. Figures to the right indicate marks.
2. Answer should be brief and to the point.
3. Diagrams shall be appreciated.

**SECTION - I**

**I Long Essay : (any one) 10**

- (a) Describe various phases of gait cycle in detail.

**OR**

- (b) What is Gleno humeral Rhythm ? Write in detail about it and its significance.

**II Answer in short : (any three) 15**

- (a) Factors affecting stability of a joint.
- (b) Causes of recurrent dislocation of patella.
- (c) Difference between close pack and span pack position of a joint.

**III Very short answers : (any five) 15**

- (a) Definition of Torque.
- (b) Open and close chain.
- (c) Stress and strain curve.
- (d) Cartilage.
- (e) Diarthrodial joints.
- (f) Motor unit.

## SECTION - II

**IV** Long answer : (any **one**) **10**

Explain mechanism of locking and unlocking of knee.

**OR**

Write in detail about various stages of Abduction of shoulder and muscle work.

**V** Short answer : (any **three**) **15**

- (a) Second order levers.
- (b) Passive and active insufficiency of a muscle.
- (c) Ligamentum flavum.
- (d) Force couple.

**VI** Very short answer : (any **five**) **15**

- (a) Intervertebral disc
  - (b) Lumbar pelvic Rhythm
  - (c) Primary muscles of ventilation.
  - (d) Dynamic stabilisation of glenohumeral joint.
  - (e) Genu varus + Genu valgus.
  - (f) Different types of grips.
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