

T-15 (CV-II)
B.P.T. Examination, June-2021
BIOMECHANICS AND KINESIOLOGY
(BPT-205)

Time : 1½ Hours] [Maximum Marks : 80

Note : Attempt any **two** questions. **All** questions carry equal marks.

1. Write about Anatomical Pulley and levers.
2. Explain structure and function of a muscle.
3. Describe the structures forming hip Joint.
Explain why using a cane on the opposite hip joint when pain or weakness is more effective than using cane on same side.

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4. Explain Gait cycle in detail.
5. What do you understand by elasticity?
Explain stress, strain curve and Hooke's Law in detail.
6. What is Posture? Explain kinetics and kinematics of posture in detail.
7. Explain gleno-humeral rhythm in detail.
8. Describe connective tissues and its properties in detail.
9. Write short notes on:
 - (a) Ligaments of ankle joint
 - (b) Friction
 - (c) Locking and unlocking of knee joint
 - (d) Properties of springs

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10. Write about:

(a) Joint lubrication

(b) Effect of Immobilization of
connective Tissues.