



B-M201919

Seat No. _____

Second Year B.P.T. Examination

March - 2021

Kinesiology

(New Course)

Time : Hours]

[Total Marks :

SECTION-I

1 Write long essay: [any one] 10

(A) Write in details about Kinetics and Kinematics of shoulder joint.

OR

(B) Define Gait. Explain in detail about various phases of gait. Write about abnormal gait.

2 Write short notes: [any three] 15

(A) Lumbo-Pelvic rhythm.

(B) Types of muscle contraction.

(C) Kinetics and Kinematics of ADL such as supine to sit.

(D) Arthro-kinematics of tibio-femoral joint.

3 Write short answers : [any five] 15

(A) Types of Prehension.

(B) Q-angle.

(C) Convex-Concave rule.

(D) Intrinsic minus position of hand

(E) Ligaments of ankle joint.

(F) Anterior pelvic tilt.

SECTION-II

- 4 Long answer : (Any 1 out of 2) **10**
- (A) Write in detail about muscles of ventilation and its role in Biomechanics of rib cage.
 - (B) Structure and types of joints and types of movement.
- 5 Short answer : (Any 3 out of 4) **15**
- (A) Active and passive insufficiency.
 - (B) Occupational hazards for physiotherapists.
 - (C) Typical Ligaments of Spinal column.
 - (D) Carrying angle of elbow.
- 6 Very short answer: (Any 5 out of 6) **15**
- (A) Ground reaction force vector.
 - (B) Axis of radio-ulnar joint during supination and pronation.
 - (C) Arthrokinematics of ankle joint.
 - (D) Ballistic movement.
 - (E) Role of patella as a anatomic pulley.
 - (F) Line of gravity and centre of gravity.
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