



RAN-2106000302050002

Second Year B. Physiotherapy Examination September - 2025

Kinesiology and Biomechanics (New)

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

Second Year B. Physiotherapy

Name of the Subject :

Kinesiology and Biomechanics (New)

Subject Code No.: 2106000302050002

Seat No.:

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Student's Signature

Section - I

Q. 1. Long Essay (Any One)

(10)

Explain kinetics and kinematics of Elbow joint. Mention two joint muscle effects on elbow range of motion.

OR

What is posture? Explain various factors affecting posture and describe the abnormal posture of spine.

Q. 2. Write short note: (Any Three)

(3×5=15)

- Kinesiological Analysis of Getting up from the chair
- Enumerate different types of precision grips with examples.
- Explain movement at Rib cage
- Define Open Kinematic chain and Closed Kinematic chain with anatomic examples.

Q. 3. Write short note: (Any Five)

(5×3=15)

- Explain the movements of scapulothoracic joint.
- Cubitus valgus and varus
- Describe the structure and function of radioulnar joint.
- Define Wartenberg's sign
- Length tension relationship of a muscle.
- Define various parameters of gait.

Section - II

Q. 1. Long Essay (Any One) (10)

Describe in detail general structure and function of vertebral column

OR

Write structure and function of wrist joint with Prehension of hand

Q. 2. Write short note: (Any Three) (3×5=15)

- a. Ligaments of Hip joint
- b. Role of diaphragm in breathing mechanism.
- c. Scapulohumeral rhythm
- d. RLA classification of Gait

Q. 3. Write short note: (Any Five) (5×3=15)

- a. Anterior pelvic tilt
 - b. Metatarsal Break
 - c. Explain ulnar variance
 - d. Explain Q angle
 - e. Write in detail about extensor hood
 - f. Hystereis
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