



RAN-4004

Second Year B.Physiotherapy Examination

March / April - 2019

KINESIOLOGY

સૂચના : / Instructions

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

Subject Code No.:

4 0 0 4

Seat No.:

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Student's Signature

SECTION - I

Q.1 Function of Cervical region (Kinematics and kinetics). **(10)**

OR

Q.1 Explain Lung volumes and capacities and explain primary and accessory muscles of ventilation.

Q.2 **SHORT ESSAY (Any 3 out of 4)** **(15)**

- Effect of exercise on tendon and ligament.
- Factors affecting muscle function.
- Explain primary and secondary muscles acting on Temporomandibular joint.
- Explain Synovial joint.

Q.3 **SHORT ANSWERS (Any 5 out of 6)** **(15)**

- Young's modulus.
- Explain open and close kinematic chain system.
- Angle of pull.
- Explain motor unit.
- Types of muscle fibres.
- Explain Coupling of motion in vertebral column.

SECTION - II

1. Describe about the structural function of wrist and hand complex. **10**
Also write in detail about the various prehension patterns.

OR

1. Compare Lumbo- pelvic rhythm with Scapulo-humoral rhythm. **10**

2. **Write short notes: (Three out of Four)** **(3X5 = 15)**

- a. What is good posture? How do you assess posture using a postural mirror?
- b. Stabilization of knee
- c. Kinetics and Kinematics of sit to stand activity
- d. Gluteus maximus gait

3. **Write short notes: (Five out of Six)** **(5X3 = 15)**

- a. Pelvic Tilt
- b. Coxa Vara and Valga
- c. Carrying Angle
- d. Screw home mechanism
- e. Two joint muscle action
- f. Describe prehension