

A

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EXAMINATION : DECEMBER - 2024
SECOND YEAR

Subject: Kinesiology (BPT- 21204)

Date: 28/12/2024

Total Marks: 80

Time: 2.00 pm to 5.00 pm

SECTION – A

Q.1 Answer the following questions in short (Any five) (15)

- a. Write Mechanism of Respiration.
- b. Define Concavo-Convex rule.
- c. Differentiate Type-I and Type-II muscle fibres
- d. State Starlings Law.
- e. Define Kinematics and give its types
- f. Write about Arches of hand

Q.2 Answer the following questions (Any five) (35)

- a. Describe the movement occur at Subtalar joint. Explain about weight bearing and non weight bearing mechanism in detail.
- b. Describe Scapulo-humeral rhythm
- c. Write a note on Hip Abductor mechanism.
- d. Describe the structure of connective tissue and its properties
- e. Discuss the Kinetics and Kinematics of thorax
- f. Write a note on Coxavara and Coxavalga.

SECTION – B

Q.3 Answer the following questions in detail (Any one) (15)

- a. Discuss the kinetics and kinematics of Temporo-mandibular joint. [6 + 9 = 15]
- b. Write kinetics and Kinametics of Wrist Joint. [7 + 8 = 15]

Q.4 Answer the following questions in detail (Any one) (15)

- a. Describe Spine biomechanics under following headings: [7 + 5 + 3 = 15]
 - i) Kinematics
 - ii) Role of interval disc during different movements.
 - iii) Static stabilizers of Spine
- b. Define Gait Cycle. Explain the kinetics and kinematics of Gait. Explain about its determinants. [1 + 9 + 5 = 15]
