

A

TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF PHYSIOTHERAPY (B. P. T.)
EXAMINATION : MARCH - 2023
SECOND YEAR
Subject: Kinesiology (BPT- 21204)

Date: 08/03/2023

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. Q angle
- b. Define the terms osteokinematics and arthokinematics with one example each.
- c. Define Coxa Vara and Coxa Valga.
- d. What is torque?
- e. Explain carrying angle of elbow
- f. Open (OKC) vs. Closed Kinematic chain (CKC) with example

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

- a. Define active insufficiency and passive insufficiency and give one example of each.
- b. Describe different types of lever with their examples.
- c. Movement of thorax
- d. Screw Home Mechanism
- e. Motions of patella
- f. Types of muscle fiber

SECTION – B

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

- a. Define Gait. Phases of Gait Cycle. Kinetic and Kinematics of Gait in Sagittal plane.
- b. Discuss factors affecting stability and mobility of elbow joint. Write note on kinematics of supination and pronation.

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

- a. Discuss the kinematics of the hip joint. Discuss the role of abductors in bilateral and unilateral stance with an example.
- b. Describe kinetics and kinematics of tibio-femoral joint. Write a note on significance of patella as anatomical pulley.
