

C 64985

(Pages : 2)

Name.....

Reg. No.....

SECOND YEAR B.P.E. DEGREE EXAMINATION, AUGUST 2014**Paper VI – KINESIOLOGY AND BIOMECHANICS**

Time : Three Hours

Maximum : 75 Marks

Answer any three questions from Part A and any two questions from Part B including Question 8, which is compulsory.

Part A

1. Describe the structure of shoulder Joint. Write the attachments and actions of the muscles acting on it.

(15 marks)

2. Explain briefly :

- (a) The scope of Biomechanics in sports training and competitions.
 (b) Contribution of Leonardo Da Vinci.
 (c) The role of Kinesiology in Physical Medicine.

(3 × 5 = 15 marks)

3. Describe the following :

- (a) Types of muscle contractions.
 (b) The function of the cerebrum.
 (c) The general principles in moving one's own body.

(3 × 5 = 15 marks)

4. Write short notes on the major actions of the following muscles :

- (a) Deltoid.
 (b) Sub Scapularis.
 (c) Quadriceps.

(3 × 5 = 15 marks)

5. Explain briefly :

- (a) The extension of the knee joint.
 (b) The exercises for strengthening muscles.
 (c) The muscular analysis of walking.

(3 × 5 = 15 marks)

Turn over

Part B

6. Describe the mechanical and muscular analysis of throwing. (15 marks)
7. Explain briefly :
- (a) The angle of projection.
 - (b) The biomechanical analysis in sports.
 - (c) The principles of equilibrium and their application in sports. (3 × 5 = 15 marks)
8. Write short notes on any *five* :
- (a) Equilibrium.
 - (b) Electromyography.
 - (c) Isokinetic exercises.
 - (d) Sagittal Axis.
 - (e) Stretch Reflex.
 - (f) Ankle Joint.
 - (g) Pronation.
 - (h) Antagonists. (5 × 3 = 15 marks)