C 82633   (Pages : 2)   Name...

Reg. No.............. 10.............

SECOND YEAR B.P.E. DEGREE EXAMINATION, APRIL 2015

Paper VI—KINESIOLOGY AND BIOMECHANICS

(2010 Admissions)

Time : Three Hours   Maximum : 75 Marks

Answer **three** *questions from Part A and* **two** *questions from Part B including* **question No. 8**, *which is* **compulsory**.

Part A

1. Describe the structure of hip joint. Write the attachments and actions of the muscles acting on it.

    (15 marks)

2. Explain briefly :

    (a) Contribution of Alfonso Boreli.

    (b) The role of Kinesiology in Physical Education.

    (c) The structural classification of muscles.

    (3 × 5 = 15 marks)

3. Describe the following :—

    (a) The general principles in giving impetus to external objects.

    (b) The meaning of Biomechanics.

    (c) Buoyancy and equilibrium in water.

    (3 × 5 = 15 marks)

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

    (a) Rhomboid.

    (b) Triceps.

    (c) Hamstrings.

    (3 × 5 = 15 marks)

5. Explain briefly :

    (a) The mechanical analysis of walking.

    (b) The factors influencing equilibrium.

    (c) Centripetal and centrifugal force.

    (3 × 5 = 15 marks)

Turn over

Part B

6. Describe the mechanical and muscular analysis of sprinting. (15 marks

7. Explain briefly :

    (a) The function of the proprioreceptors.

    (b) The anatomic starting position.

    (c) The pronation of the elbow joint.

(3 × 5 = 15 marks

8. Write short notes on any *five* :

    (a) Neutralizers.

    (b) Goniometry.

    (c) Sagittal plane.

    (d) Frontal Axis.

    (e) All and none law.

    (f) Ankle Joint.

    (g) Supination.

    (h) Cerebrum.

(5 × 3 = 15 mark