28795

SECOND B.P.E. DEGREE EXAMINATION, JULY 2012

PHYSICAL EDUCATION

9

PAPER VI – KINESIOLOGY & BIOMECHANICS
(2010 Admissions)

Time : Three Hours **Maximum : 75 Marks**

Answer any five questions of which 3 from PART – A and 2 from PART – B including question No.8 which is compulsory.

All questions carry equal marks

PART – A

1. Discuss in detail about the role of Kinesiology in Physical Education, Physical Medicine and daily life.
2. List down the murdes attached to
   (a) Shoulder joint
   (b) Hip joint
   (c) Ankle joint
3. Mechanically analyze
   (a) Walking
   (b) Throwing
   (c) Striking
4. Write notes on
   (a) Electromyography
   (b) Goniometry
   (c) Stroboscopic photography
5. Explain the following:
   (a) Force and its types
   (b) Spin and its types
   (c) Equilibrium and its types

PART – B

6. Explain Newton's laws of motion and their application in sports? (1 x 15=15 Marks)
7. (a) Fill in the blanks:-
   (i) Kneejoint is an example of ..... joint.
   (ii) Sideways bending of trunk is an example of movement in..... plane ..... axis.
   (iii) Boxer's muscle is ..... and Tailor's muscle is .....
   (iv) The movements around ball and socket joints are ....., ..., ... & .....
   (b) Differentiate between fundamental and anatomical standing positions.
   (c) Structural classification of muscles. (3 x 5 = 15 Marks)
8. Answer any five of the following.
   (a) Stabilizers and Neutrolizers.
   (b) Body levers
   (c) Mass and Weight
   (d) Angle of rebound
   (e) Friction
   (f) All or none law.
   (g) Types of muscle contractions.
   (h) Reciprocal Innervation and Inhibition.

(5 x 3 = 15 Marks)