

64509

Name :

Reg. No:

FIRST YEAR B.P.E. DEGREE EXAMINATION, JUNE 2014

03

Physical Education
(2010 - 2012 Admission)

Paper II - GENERAL SCIENCE

Time : Three Hours

Maximum : 75 Marks

Answer any 5 questions of which 3 questions should be from Part A and 2 questions from Part B including Question No. 8, which is compulsory.

Part A

I. "Science contributes to Physical Education" Justify the statement (15 marks)

II. i) State Newton's Laws of motion

ii) State the laws of conservation of energy

iii) State the Laws of reflection

(3 x 5 = 15 marks)

III. Differentiate the following

i) Fats and Oils

ii) Oxidation and Reduction

iii) Latent heat of fusion and Latent heat of vaporization.

(3 x 5 = 15 Marks)

IV (i) Explain soil pollution.

(ii) Explain blood groups

(iii) Explain modes of heat transference.

(3 x 5 = 15 Marks)

V Explain the following:-

(a) Implication of Newton's first Law of motion.

(b) Uses of Hydrogen and Oxygen.

(c) Momentum.

(3 x 5 = 15 Marks)

Part B

VI Explain how a knowledge of projectile motion will help a sports person.

(15 Marks)

VII Give one example for the following.

(a) (i) Oxidation reaction

(ii) Isotopes

(iii) Allotropes

(iv) Angular motion

(v) Element

(5 x 1 = 5 Marks)

- (b) (i) Compound
(ii) Mixture
(iii) Salt
(iv) Molecule
(v) Mono saccharides

(5 x 1 = 5 Marks)

- (c) (i) Di-saccharides
(ii) Poly saccharides
(iii) Amino Acids
(iv) Buffer solution
(v) Alkali

(5 x 1 = 5 Marks)

VIII Answer any 5 questions in brief.

- (i) Specific gravity
(ii) Acids
(iii) Radio activity
(iv) Effects of pollution
(v) Environment
(vi) Heredity
(vii) Carbohydrates
(viii) Soaps

(5 x 3 = 15 Marks)
