C 29055

(Pages: 2)

Name...............................

Reg. No...........................

FIRST YEAR B.P.E. DEGREE EXAMINATION, AUGUST 2012

Physical Education

Paper II—GENERAL SCIENCE

(2010 Admissions)

Time : Three Hours   Maximum : 75 Marks

Answer any **two** *questions from each part.*

Part A (Physics)

I.   Define a Projectile. Explain the principles of projectiles.

(12½ marks)

II. Write short notes on : (Any *two*)

    (a)   Conductors and Non-conductors.

    (b)   Specific heat and Latent heat.

    (c)   Distance and Displacement.

(2 × 6¼ = 12½ marks)

III. Write briefly on : (Any *five*)

    (a)   Total Internal Reflection.

    (b)   Vectors and scalars.

    (c)   Concave and convex mirror.

    (d)   Magnets.

    (e)   Importance of Newton's Laws in sports and games.

    (f)   Volt and Ampere.

    (g)   Electric Cell.

    (h)   Laws of Refraction.

(5 × 2½ = 12½ marks)

Part B (Chemistry)

IV. With the help of a neat labelled diagram explain the laboratory preparation of chlorine and explain its uses.

(12½ marks)

V.   Explain the following : (Any *two*)

    (a)   Methods of Removing permanent hardness.

    (b)   Preparation of soap.

    (c)   Amino Acids.

(2 × 6¼ = 12½ marks)

Turn over

VI. Write briefly on : (Any *five*)

    (a) Allotropes of Carbon.

    (b) Metals and Non-metals.

    (c) Oxidation and Reduction.

    (d) Uses of Ammonia.

    (e) Combustion.

    (f) p_H scale.

    (g) Salts.

    (h) Oxidation Number.

$(5 \times 2\frac{1}{2} = 12\frac{1}{2}$ marks$)$

Part C (Biology)

VII. Describe Habitat and explain biomes.

$(12\frac{1}{2}$ marks$)$

VIII. Write briefly on : (Any *two*)

    (a) Noise pollution.

    (b) Nutrients.

    (c) Chemical Environment.

$(2 \times 6\frac{1}{4} = 12\frac{1}{2}$ marks$)$

IX. Write short notes on : (Any *five*)

    (a) Types of blood groups.

    (b) Symbiosis.

    (c) Matter.

    (d) Heredity.

    (e) Safe Environment.

    (f) Nutrients.

    (g) Tundra.

    (h) Scope of biology.

$(5 \times 2\frac{1}{2} = 12\frac{1}{2}$ marks$)$