

Bs/G Phy 4 (b) (AK)

2 0 2 4

(CBCS)

(4th Semester)

PHYSICS

Paper No. : G Phy 4 (b)

(Nuclear and Particle Physics)

(PART : A—OBJECTIVE)

(Marks : 25)

KEY ANSWERS FOR OBJECTIVES

SECTION—I

(Marks : 15)

Put a Tick (✓) mark against the correct answer in the
brackets provided : 1×15=15

1. (a) heavier than proton
2. (b) $R \propto R_0 A^{1/3}$
3. (b) Nucleon behaving like drops of liquid
4. (a) 28.8 MeV

/1068K

(2)

5. (c) Fermions obeying quantum statistics
6. (c) nuclear binding
7. (d) Positron
8. (a) Electron capture
9. (c) Alpha spectroscopy
10. (d) Conservation of energy and momentum
11. (c) The probability of a reaction occurring
12. (b) 1 MeV
13. (c) ionization of gases
14. (d) Sodium iodide
15. (d) Cyclotron
