

Bs/Phy (P&H)-501 (AK)

2 0 1 7

(5th Semester)

PHYSICS

Paper No. : PHY (P&H)-501

(Nuclear Physics—I and Solid-State Physics—I)

(PART : A—OBJECTIVE)

(Marks : 25)

KEY ANSWERS FOR OBJECTIVES

SECTION—I

(Marks : 10)

Put a Tick (✓) mark against the correct answer in the
brackets provided : 1×10=10

1. (c) 6 fm
2. (b) γ -rays
3. (d) elastic collisions with hydrogen nuclei
4. (a) atomic number decreases by one
5. (b) vapour
6. (b) GM counter voltage region is higher than the
proportional counter

(2)

7. (b) 6
8. (a) $\frac{-a}{r^m} + \frac{b}{r^n}$
9. (c) 5
10. (d) entropy decreases and thermal conductivity increases

SECTION—III

(Marks : 5)

Write True/False against each statement in the brackets provided : 1×5=5

1. (a) False
(b) True
2. (a) True
(b) False
3. (a) False
(b) True
4. (a) False
(b) True
5. (a) True
(b) False
