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(CBCS)

(4th Semester)

PHYSICS

Paper No. : G Phy 4(a)

(Thermal Physics and Statistical Mechanics)

(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. *(d)* both on temperature and volume of the gas

2. *(a)* is zero

3. *(c)* both isothermal and adiabatic changes

4. *(d)* remains constant

5. *(b)* isothermal process

6. *(b)* heat engine

7. *(b)* $G \quad U \quad PV \quad Ts$

8. *(c)* both real and ideal gases

9. *(c)* $TE \quad ^2V$

10. *(b)* Distribution of molecular speeds in a gas

11. *(c)* ability to flow

12. *(d)* $E \quad (T^4 \quad T_0^4)$

13. *(c)* Fermi-Dirac

14. *(a)* bosons

15. *(a)* maximum

★ ★ ★