
PG TRB , POLYTECHNIC TRB & TNSET

Quantum & Statistical Mechanics model question paper

Time: 1 Hour

Marks: 45

Answer all the question:

1. For a self adjointed operator the eigen value and eigen functions belonging to distinct eigen values are respectively (PGTRB-2015)

- a) Real , non orthogonal
- b) complex , non orthogonal
- c) Real , orthogonal
- d) complex, orthogonal

2. For a system of N_i particles with energy E_i and chemical potential μ , Maxwell - Boltzmann statistics function is (TRB ENGG COLLEGE ASST PROF-2016)

- a) $N_i = \frac{g_i}{e^{E_i/kT}/E_i - \mu}$
- b) $N_i = \frac{g_i}{e^{E_i/kT}}$
- c) $N_i = \frac{g_i}{e^{E_i/kT}/E_i}$
- d) $N_i = \frac{g_i}{e^{E_i - \mu/kT}}$

3. The microstate is defined by (PG TRB 2004-2005)

- a) pressure and volume of the gas.
- b) pressure and temp of the gas.
- c) pressure, temp of the gas.
- d) position & velocity component of the molecules

4. An object takes 5 minutes to cool from 80°C to 64°C. And it will take 10 minutes to cool to 52°C then the temperature of the surroundings is (TRB -JUNIOR GRADUATE ASST 2003-2004)

- a) 43°C
- b) 8.16°C
- c) 16°C
- d) 20°C

5. The certainty of finding a particle in a given volume is (PG TRB 2003-2004)

- a) $\int |\Psi|^2 dv = 0$
- b) $\int |\Psi|^2 dv = 1$
- c) $\int |\Psi|^2 dv \leq 1$
- d) $\int |\Psi|^2 dv > 1$

6. In partial wave analysis the scattering cross section is maximum when the phase shift δ_0 is

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