

Q.No.01 Choose the correct answer:

1. The average value of physical quantity  $A(q, p)$  for actual system of interest is

- a)  $\bar{A} = \frac{1}{\Omega} \int_{-\infty}^{+\infty} A(q, p) P(q, p, t) dt$     b)  $\bar{A} = \frac{1}{\Omega} \int_{-\infty}^{+\infty} A(q, p) \rho(q, p, t) dt$     c)  $1 = \frac{1}{\Omega} \int_{-\infty}^{+\infty} A(q, p) \rho(q, p, t) dt$     d)  $\bar{A} = \frac{1}{\Omega} \int_{-\infty}^{+\infty} A(q, p) U(q, p, t) dt$

2. The value of  $\gamma(C_p/C_v)$  for a DIATOMIC GAS molecule is

- a) 1.66    b) 1.4    c) 1.33    d) 1

The trajectory of S.H.O in phase space is

- a) Ellipse    b) Circle    c) Parabola    d) Spiral

4. In phase space, the total probability is obtained by taking

- a) Sum of individual probability    b) Product of individual probability    c) Subtraction of individual probability    d) Division of individual probability

5. According to Maxwell-Boltzmann velocity distribution; the average speed  $\bar{u}$  of the particle of a classical gas is

- a)  $8k_B T / \pi m$     b)  $8k_B T / \pi m)^{1/2}$     c)  $(\pi m / 8k_B T)^{1/2}$     d)  $\pi m / 8k_B T$

6. If a change is reversible, we cannot have

- a)  $\Delta S_{\text{universe}} > 0$     b)  $\Delta S_{\text{universe}} = 0$     c)  $\Delta S_{\text{universe}} < 0$     d) both a) & b)

7. PLANK's formula for BLACK BODY radiation can be derived from STATISTICS

- a) Fermi-Dirac    b) Bose-Einstein    c) Max Well-Boltzmann    d) (a) and (b)

8. If the wave function of identical particles change sign when these are interchanged, the particles are

- a) Boson    b) Fermions    c) Photons    d) Negatron

9. In case of micro canonical ensemble, the volume of sphere and its thickness should be

- a) Greater than 1    b) Less than 0    c) Different    d) Same

10. Which of the following is true in regard to the energy of an isolated system

- a)  $dQ \neq 0$     b)  $dW \neq 0$     c)  $E = \text{constant}$     d) All of the mentioned

11. A red glass piece is heated until it glows in dark. The color of the glow will be

- a) Red    b) Orange    c) Green    d) Violet

12. Which of the following parameters does not characterize the thermodynamic state of matter?

- a) Volume    b) Temperature    c) Pressure    d) Work

13. Which is meaningful arrangements for case of  $n$  particles and two boxes, if  $n_1$  in box-1 and remaining  $n_2 = n - n_1$  in box-2

- a)  $n! \cdot n_2! / n_1!$     b)  $n! / n_1! \cdot n_2!$     c)  $n! \cdot (n! - n_1!) / n_1!$     d)  $n! \cdot (n! - n_1!) / n_2!$

14. What will the total number of microstates for particles  $n = 3$  and compartments  $C = 2$

- a) 9    b) 5    c) 8    d) 1

15. The relation for heat conductivity of monatomic gases is (where,  $l$  is mean free path,  $\rho N$  is particle density)

- a)  $\lambda = 3/2 k_B v \rho N$     b)  $\lambda = 1/3 k_B v \rho N$     c)  $\lambda = 2/3 k_B v \rho N$     d)  $\lambda = 1/2 k_B v \rho N$

16. Temperature  $T$  and Chemical potential  $\mu$  may be used to characterize an

- a) Closed system    b) Particle system    c) Open system    d) Isolated system

17. The probability of occurrence of two independent events is equal to their

- a) Sum    b) Difference    c) product    d) Ratio

18. The system will do work as much its Helmholtz free energy as

- a)  $F = P \log Z$     b)  $F = -T \log Z$     c)  $F = T \log Z$     d)  $F = -T \log 4$

19. The difference between molar specific heats at constant pressure and at constant volume is always equal to about

- a) Avogadro's number    b) Gas constant    c) 1.41    d) Gibbs Constant

20. The average number of particles (probability) in Energy state  $\epsilon_k$  is given as

- a)  $1 / 1 + [\exp (\epsilon - \mu) / T]$     b)  $1 / 1 - [\exp (\epsilon - \mu) / T]$     c)  $1 / 1 + [\exp (\epsilon + \mu) / T]$     d)  $1 / 1 + [\exp (\epsilon - \mu)]$

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