

# CC14 (Statistical Mechanics)

Internal Examination - 1, Semester - VI, F.M. - 10, Date: 11/06/2022

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1. Stirling's formula states that for very large value of  $N$ ,  $\ln N!$  is equal to

- $N!$
- $N (\ln N - 1)$
- $N \ln N$
- $\ln N / N$



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2. Boltzmann relation between entropy and probability is

- $S = \ln W$
- $S = \ln W / k$
- $S = k \ln W$
- $S = k/(\ln W)$

3. In micro-canonical ensemble the individual assemblies are separated by

- rigid walls
- permeable walls
- rigid, impermeable and well insulated walls
- neither of these

4. In canonical ensemble, each assembly is separated by

- rigid walls
- permeable walls
- diathermic walls
- rigid, impermeable and diathermic walls

5. In grand canonical assemble, the walls of the individual assembly are

- impermeable
- rigid
- diathermic
- rigid, permeable and diathermic

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