

## **Govt. College for Women Nawa Kadal Srinagar**

<b>Semester: 3<sup>rd</sup></b>	<b>Batch: 2018</b>
<b>Subject: Physics</b>	<b>Session: 2020</b>
<b>Course Title: Thermal Physics and Statistical Mechanics</b>	<b>Course Code:PHY</b>
<b>Max. Marks: 60</b>	<b>Min. Marks: 24</b>

**Q1: Define Isothermal process. Find an expression for the work done during the process?**

**Q2: What are thermodynamics potentials? What are Helmholtz and Gibbs Functions?**

**Q3: What is black body radiation? State Plank's radiation law. Write down Plank's Quantum Postulates?**

**Q4: What are the Postulates of Fermi- Dirac the statistics? Derive an expression for the probability distribution of particles?**