

**University of Barishal, Department of Computer Science and Engineering**

**Course Title: Basic Mechanical Engineering, Course Code: EEE-1207**

**Exam: Mid Term-2, Admission Session: 2023-2024**

Time: 01 Hour		Marks: 10
1.	What is meant by refrigeration system? Explain the purpose and application of refrigeration.	1.5
2.	What are the properties of a good refrigerant?	1
3.	Explain the vapor compression refrigeration system with the help of $P-h$ and $T-s$ diagram.	2
4.	Explain the working principle of a Year-round air-conditioning system with a suitable neat sketch.	1.5
5.	What are the differences between Petrol engine and Diesel engine?	1
6.	Explain the operational sequence of four cycles of a Petrol Engine with appropriate sketch.	1.5
7.	Write down current situation of Solar and Wind energy in Bangladesh.	1.5