



Mid Term Examination Fall 2021

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Course Title:	Thermodynamics			Course Code:	ME-238	Credit Hours: 2-1
Course Instructor:	Muhammad Imran			Programme	BSEE	
Semester:	1st	Session	2021	Section:	Date:	03-1-2022
Time Allowed:	60 minutes			Maximum Marks: 30		
Student's Name:				Reg. No.	2021-EE-392	
Important Instructions / Guidelines: Read the question paper carefully and answer the questions according to their statements. Mobile phones are not allowed. Calculators must not have any data/equations etc. in their memory.						

Question #01 (CLO1, C2, PLO1)(3+2+5)

A: Discuss reversible work and derive its relation.

B: Explain first law of thermodynamics.

C: Unit mass of a fluid at a pressure of 3 bar, and with a specific volume of $0.18 \text{ m}^3/\text{kg}$, contained in a cylinder behind a piston expands reversibly to a pressure of 0.6 bar according to a law $p = c/v^2$, where c is a constant. Calculate the work done during the process and explain it on PV diagram.

Question #02 (CLO1, C2, PLO1)(3+2+5)

A: Explain and draw the property diagram.

C: What is dryness fraction. Discuss it for water and pure steam.

B: Calculate the specific volume, specific enthalpy, and specific internal energy of wet steam at 20 bar, dryness fraction is 0.8.

Question #03 (CLO1, C2, PLO1)(4+6)

A: Discuss and Calculate the work done for adiabatic process.

B: Air at 1.02 bar, 22°C , initially occupying a cylinder volume of 0.015 m^3 , is compressed reversibly and adiabatically by a piston to a pressure of 6.8 bar. Calculate the final temperature, the final volume, and the work done on the mass of air in the cylinder. Explain the process on PV diagram.

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