Department of Electrical Engineering Final term exam

Date: 28/09/2020

		Course Deta	<u>iils</u>	
Course Title: Instructor:		tle: _Thermodynamics	Module:	02
		r:	Total Marks:	50
		Student Detai	<u></u> <u>Is</u>	
Nam	ne:		Student ID:	
Q1.	(a)	State the following along with their mathematical expressions:		Marks
	i.	The ideal gas law		04+06
	ii.	Dalton's law of partial pressure		CLO 2
	(b)	Let the initial volume of the gas in a container be 06 liters and the initial pressure be 04 atm. The piston is compressed at a constant temperature to a new final volume of 2.50		
		L. Evaluate the final pressure in units of atm, mmHg and psi.		
Q2.	(a)	You need to buy a refrigerator for your home.	Outline the key factors that you v	
		consider while buying the refrigerator.		05+08
	(b)	Explain vanous absorption refrigeration system		CLO 3
Q3.	(0)	Explain vapour absorption refrigeration system. Distinguish between water tube & fire tube boilers.		Marks
		Distinguish between water tube & file tube bolls	:i 3.	06
				CLO 3

State the meaning of the word "stroke" & **describe** the working of a 04 stroke engine.

Several provincial governments in Pakistan have banned the use of 02 stroke engines in

Explain the concept of Scavenging.

auto rickshaws. **Identify** the causes behind this decision.

Marks 12 CLO 3

Marks

04+05

CLO 3

Q4.

Q5.

(a)

(b)