SUBJECT CODE NO:- P-333 FACULTY OF ENGINEERING AND TECHNOLOGY F.E. Examination MAY/JUNE-2016 Elements of Mechanical Engineering (Revised)

			(nevised)	
[Time: Two Hours]				[Max Marks:40]
			"Please check whether you have got the right question paper."	
N.B		1)	, , , , , , , , , , , , , , , , , , , ,	
		,	Attempt <u>any two</u> questions from remaining.	
		3)		
		4)	· ·	
		5)		
Q.1	Solve <u>any five</u> of the following.			10
	a) What is meant by steady flow energy equation?			
	b) What is function of carburetor in I.C. engines?			
	c)	c) Represent isentropic process on P-V and T-S planes.		
	d)	d) State any four advantages of renewable energy sources.		
	e)	e) Diesel engines are heavy as compared to petrol engines explain in brief.		
	f)	f) Define specific heat of a substance.		
	g)	Define er	ntropy of a substance.	
	h)	What is f	function of economizer in case of thermal power plant?	
Q.2	a)	a) Explain the difference between heat and work.		
	b)	Explain ty	wo stage reciprocating air compressor with the help of neat sketch.	08
Q.3	a)		tiate between renewable and non-renewable energy sources.	05
	b)		of an air has a pressure of 150 KN/m ² , it is compressed to 700 KN/m ² , according to the <i>C</i> Determine work done of the process.	law 10
Q.4	a)		called as path function, explain?	07
	b)	Explain tl	he advantages and disadvantages of thermal power plant.	08
Q.5	a)			
	b)			05
	c)	Explain tl	he principle and operation of steam turbine.	05