

Term:	8th Aug 2016 to 17th Dec 2016	Course Code:	ME 101
Course:	ELEMENTS OF MECHANICAL ENGINEERING	Semester:	I
CIE:	Test – I	Max Marks:	30

Instructions to Candidates: Answer any 2 complete questions
Note: Mobiles and Programmable Calculators are strictly prohibited.

Q. No		Questions	CO	Marks	BL
1	a	Write the difference between renewable and non renewable energy sources	CO1	(8)	L1
	b	explain with neat sketch the working of closed cycle gas turbine	CO1	(7)	L2
2	a	Find the specific volume and enthalpy of 1 kg of steam at 0.8 MPa i. When the dryness fraction is 0.9 ii. Steam is superheated to a temperature of 300°C. The specific heat of super heated steam is 2.25 kJ/kgK	CO1	(5)	L3
	b	Sketch and explain the construction and working of Babcock and Wilcox Boiler	CO1	(10)	L2
3	a	Sketch and explain the working of Pelton wheel	CO1	(7)	L2
	b	Explain with neat sketch naming all the parts, the working of 4 Stroke cylinder CI engine	CO2	(8)	L1