CRCS Schame

C:XCS Scheme	- J. (Fa)
15	SEME14/24
USN S	
Degree Examination, Dec.2017/Ja	in.2018
First/Second Semester B.E. Degree	
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	. Marks: 80
Time: 3 hrs. Note: Answer any FIVE full questions, choosing one full question from each	module.
Note: Answer any FIVE full questions, ends	
 a. Differentiate between conventional and Non conventional energy sources. b. Define Higher calorific value (HCV) and lower calorific value (LCV) of a fue c. Explain with a neat sketch working of a wind mill. 	(04 Marks) (1. (04 Marks) (08 Marks)
OR	
2 a. Explain the terms: i) Dry saturated steam	
ii) Wet steam	
iii) Superheated steam	(04 Marks)
iv) Degree of superheat.b. Define Boiler mountings and Boiler Accessories.b. Define Boiler mountings and Boiler Accessories.	(04 Marks) (08 Marks)
73 1 in with a sketch Working of Dabcock and	(UO MIAIKS)
c. Explain with a sketch working	
Module-2	(04 Marks)
3 a. Differentiate between working of open cycle and closed cycle Gas turbine.	(04 Marks)
b. How are IC engines classified?c. Explain with a sketch working by simple impulse steam Turbine (De Laval)	Turbine). (08 Marks)
c. Explain with a sketch working by simple impact	(US IVIAI KS)
OR 4 a. Explain with a Pv diagram working of a four stroke Diesel engine. 4 by diagram working of a four stroke Diesel engine.	(08 Marks)
	of 400mm. Mean
b. A fair stroke diesel engine has a piston diameter of 250mm and stroke diesel engine has a piston diameter of the Brake effective pressure is 4Bar, Speed is 500 Rpm. Diameter of the Brake pow	ver and Frictiona
effective pressure is 4Bar, Speed is 500 Rpm. Diameter of the Brake pow effective Brake load is 400N. Determine Indicated power, Brake pow	(08 Marks
power.	
Module-3	
5 a. Explain with sketch following operations on Lathe	
5 a. Explain with sketch following operations i) Knurling	(06 Mark
ii) Thread cutting.	(06 Mark
Module-3 5 a. Explain with sketch following operations on Lathe i) Knurling ii) Thread cutting. b. Sketch and explain cylindrical co-ordinate Robot. With a simple Block diagram, explain the element of NC machine.	(04 Mark
b. A fair stroke diesel engine has a piston diameter of 250mm between the Brake effective pressure is 4Bar, Speed is 500 Rpm. Diameter of the Brake effective Brake load is 400N. Determine Indicated power, Brake power. Module-3	
OR	1. 1.27
6 a. Explain with sketch the following operations a Drilling Machine	
6 a. Explain with sketch the following operation i) Counter Boring	(06 Mar
S a control of the second of t	(06 Mar
to Fortain with a sketch rolai configuration	(04 Mar
b. Explain with a sketch of Automation? c. What are the objectives of Automation?	

-	, .	Module-4	./
7		Explain the composites properties and Application of cast Iron	(04 M)
	b	. How are composites classified.	(04 Marks
		Explain with a sketch working of electric Arc welding.	(04 Marks
		> A	(08 Marks)
		OR AND THE REPORT OF THE PROPERTY OF THE PROPE	
8	a.	What are the applications of composites in Automobile and Applications of Composites and Composite and Composites and Composite and Composite and	
	b.	Differentiate between soldering, Brazing, Welding.	(04 Marks)
	c.	Explain the process of	(04 Marks)
		i) Soldering	
		ii) Brazing.	
		my bruzing.	(08 Marks)
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9	_	Module-5	
9	a.	Define:	
		i) Refrigeration	
		ii) Air conditioning	(0.4.3.5
	b.	List the commonly used Refrigerants.	(04 Marks)
	c.	Explain with a sketch working of vapour absorption Refrigerating system.	(04 Marks)
		e ap an absorption item igerating system.	(08 Marks)
		OR	
10	a.	Differentiate between working of Variante	
		Differentiate between working of Vapour compression and vapour absorption Resystem.	frigerating
	b.	Define the terms:	(04 Marks)
		i) Refrigerant	,
		Z	
		iii) COP	
		iv) ICE making capacity.	(04 Marks)
	c.	The sketch working of window Air conditioner	
			(08 Marks)

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