CRES Sahama

			CECS Scheme	<u> </u>
				15AU36
US	SN		Dog Poo	2017/Jan 2018
			Third Semester B.E. Degree Examination, Dec	.2017/3411.2
		**	Manufacturing Process -	
		_		Max. Marks: 80
7	Γim	e: 3	hrs. No. 10.	ion from each module.
		N	ote: Answer any FIVE full questions, choosing one full quest	Os
			Module-1	(06 Marks)
	1	a.	List the steps involved in sand casting. Briefly explain.	(04 Marks)
			The Dottern Nichal are the functions of pattern.	(06 Marks)
		c.	List the types of Binders used in molding sand.	
			OR	and limitations of Green sand
	2	a.	With a neat sketch, explain the procedure and advantages a	(08 Marks)
	-	•••	moulding process.	(04 Marks)
		b.	moulding process. Explain the principal of Risers and any two types of Risers. What is Casting defect? What are the causes and remedies of a	any four casting defects? (04 Marks)
•		c.	What is Casting defect: What are the	(04 VIAI K5)
° v			Module-2	(06 Marks
	3	a.	With a neat sketch, explain Jolt squeeze type moulding.	(04 Marks
4 		b.	Explain Sweep mould process. With neat sketch, describe investment moulding process.	(06 Marks
		c.	With neat sketch, describe investment mountains	
3			OR	vetches (06 Marks
io evaluatos ana cos espandensi	4	a.	Describe Pressure – die casting technique with appropriate sk	rnace with different zones
14 A	7	b.		(10 Mark
malc			Cupola.	
cva			Module-3	7 - 1
			at alcotch, explain flux - shielded metal arc welding	g. (06 Mark (04 Mark
ppc	5		With a near sketch, explain real process with flame characters. Define Welding. Describe the detailed classification.	teristics (06 Mark
m, a		b c	Familia Ovy – acetylene Welding process with harry	teristics
catio		·		
ntifi			OR	(04 Mar
f identificatio	(6 a	— N. S. Salance of III v	
aling o		t	 What is TIG? Explain working of TIG. With a neat sketch, explain atomic hydrogen welding proce 	ss. (06 Mar
ealin		(With a neat sketch, explain atomic by	
2. Any revealing of identification, appeal			Module-4	08 Mai
Any		7 :	a. Explain the principle and working of Thermit welding proc	ess. (08 Mai
2			b. With a neat sketch, explain Electron beam welding.	
;			O.D.	
тиропан эт			a. Name the different zones formed during welding and parar	neters affecting on HAZ.
20100		8	a. Name the different zones formed during welding	(06 Ma recidual stresses. (06 Ma
			b. What is Residual stress? Explain the methods of relievingc. With neat sketches, explain the causes and remedies of any	instituti stressee.
Ξ			b. What is Residual sitess. Emphasis and remedies of any	, two welding netects. White

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9	a. b. c.	Module-5 Explain the principle of Brazing. Explain any two methods of brazing. With neat sketches, explain fluorescent particle test. Explain Eddy current test.	(06 Marks) (06 Marks) (04 Marks)
10	a. b.	OR With neat sketch, describe ultrasonic inspection methods. Explain Holography method of inspection and list the advantages.	(08 Marks) (08 Marks)

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