GBGS SCHEME

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## Third Semester B.E. Degree Examination, Dec.2019/Jan.2020 Manufacturing Process – I

Time: 3 hrs.

Note: Answer any FIVE full questions, choosing ONE full question from each module.

	N	ote: Answer any FIVE jun questions, choosing 5112 jun questions,	
		Module-1	
1	a.	Explain different types of patterns used in casting process.	(08 Marks)
	b.	Explain various nattern allowances provided in casting technology.	(08 Marks)
	c.	Write short note on sand binders and additives used in foundry.	(04 Marks)
	0.		
		OR	(06 Marks)
2	a.	Explain different types of cores used in casting process.	(06 Marks)
	b.	Explain different types of risers used in casting process.	(08 Marks)
	c.	Explain different types of casting defects.	(00 11111)
		Module-2	
3	•	Explain jolt squeeze machine used in moulding operation with neat sketch.	(06 Marks)
3	a. b.	Explain sweep moulding with neat sketch.	(06 Marks)
	c.	Explain squeeze casting.	(08 Marks)
	C.		
		OR	(10 Marks)
4	a.	Explain shell moulding with neat diagrams.	(10 Marks)
	b.	Explain cupola furnace describing various zones informed in it.	(101/2007
		Module-3	
_		Explain weld joints formed in welding operation.	(06 Marks)
5	a.	Explain Weld Joints formed in welding of the Explain TIG welding with neat sketch.	(08 Marks)
	b.	Explain 110 welding with heat sixers.  Explain submerged Arc welding.	(06 Marks)
	c.		
		OR	(07 Marks)
6	a.	Explain Atomic Hydrogen Arc welding.	(06 Marks)
Ū	b.	Explain MIG welding with neat sketch.	(00 Marks)
	c.	To de la characterístics in OVV- Acerviene gas weluing.	(07 141413)
		Module-4	
		Explain projection welding type of resistance welding.	(07 Marks)
7	a	Explain projection weiding type of resistance welding.	(07 Marks)
	b	Explain Seam welding	(06 Marks)
0	C	Explain friction welding.	
		OR	(06 Marks)
	3 a	. Explain explosive welding.	(00 Marks)
	b	Explain Thermit welding.	(07 Marks)
i	C	E 1-in Logor welding	(07 1/141113)
		Module-5	
_	0 .	Tour Line different types of Brazing.	(10 Marks)
		- 1 1 11 house ingrestion method of NUL.	(10 Marks)
	ι	getting and the state of the st	
		OR	(10 Marks)
	10	a. Explain ultrasonic inspection of NDT.	(10 Marks)
		b Explain holographic method of inspection.	(
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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.