leting your answers, compulsorily draw diagonal cross lines on the remaining blank pages.	aling of identification, appeal to evaluator and /or equations written eg, $42+8=50$, will be treated as malpractice.
your answer	of identificati
On completing	Any revealing
	2.
Important Note:	2. Any reveali

ı eamin	Librarian ng Resource Centre				CBCS SCHEM				
Anh									

17AU36

Third Semester B.E. Degree Examination, Feb./Mar.2022 **Manufacturing Process - I**

Time: 3 hrs. Max. Marks: 100

	N	ote: Answer any FIVE full questions, choosing ONE full question from each mo	dule.
		Module-1	
1	a.	With a flow chart describe the steps involved in casting process.	(10 Marks)
	b.	With a neat sketch, describe any five types of pattern allowances.	(10 Marks)
		OR	
2	a.	Discuss the requirement of base sand.	(10 Marks)
	b.	Describe the various types of casting defects with suitable figure.	(10 Marks)
		Module-2	
3	a.	With a neat sketch, explain the working of Jolt and Squeeze type moulding machi	nes
		with a near steering explain the working of took and equeeze type moduling maching	(10 Marks)
	b.	Describe sweep mould, shell mould and investment mould with relevant figures.	(10 Marks)
4		OR	
4	a.	Describe the process of squeeze casting with suitable sketch.	(10 Marks)
	b.	Discuss with neat sketch, the construction and working of electric arc furnace w	
		figure.	(10 Marks)
		Module-3	
5	a.	Discuss the advantages, limitations and applications of welding.	(10 Marks)
	b.	Describe the construction and working of metal arc welding with relevant figure.	(10 Marks)
		OR	
6	a.	With a neat sketch, explain the construction and working of submerged Arc weldi	
	b.	With a labeled diagram, explain the working of oxy-acetylene welding.	(10 Marks)
	0.	with a labeled diagram, explain the working of oxy-acetylene weighig.	(10 Marks)
		Module-4	W .
7	a.	Describe the principle of operation of friction welding with labeled diagram.	(10 Marks)
,	b.	Explain the construction and working of Electron Beam Welding with suitable fig	
	٠.	A sound was a soun	(10 Marks)
		OR	
8	a.	Describe any 4 welding defects with relevant sketch.	(10 Marks)
	b.	Explain with neat and labeled sketch the formation of different zones during weld	
			(10 Marks)
		Module-5	
9	a.	Explain the parameters involved in soldering and brazing.	(10 Marks)
,	b.	Explain different types of soldering.	(10 Marks)
		71	,

OR

- 10 a. Describe the eddy current method of inspection with relevant figure. (10 Marks) b. Explain the Holography method of inspection with suitable figure.
 - (10 Marks)