Roll No. _____

END SEMESTER EXAMINATION
SEMESTER- III

COURSE CODE : AE 402 | **DURATION : 3 (THREE)HRS**
COURSE TITLE : MANUFACTURING PROCESS | **MAXIMUM MARKS : 75**
SESSION : JUL – DEC'2021 | **PASS MARKS : 35 %**

NOTE:
1. *All the questions are compulsory*
2. *Attempt any 5 (five) questions.*
3. *Mark for each question is shown against it.*
4. *Assume suitable logical data wherever necessary.*

1.	**(a)**	Define pattern. Name ten types of patterns.		**(6)**
	(b)	With neat diagram briefly describe any three patterns		**(9)**
2.	**(a)**	Explain the following:		**(15)**
		i) Shrinkage allowance	ii) Draft allowance	
		iii) Machining allowance	iv) Movement of mould wall	
3.	**(a)**	State seven good Cores properties.		**(7)**
	(b)	Describe two types of Cores.		**(6)**
4.	**(a)**	Explain all seven types of Core boxes in short.		**(7)**
	(b)	Define the following:		(6)
		i) Moulding	ii) casting	
		iii) Core		
5.	**(a)**	Write notes on the following:		**(7)**
		i) Metal melting	ii) Pouring of metal	
	(b)	Discuss important casting defects along with their causes and remedies.		(8)
6.		Discuss the working principle and construction of the following:		**(15)**
		i) CNC	ii) EDM	
7.		Explain the following with neat diagram		**(15)**
		i) Working and construction of FMS	ii) Lathe machine	
8.		Write notes on the following:		**(15)**
		i) honing	ii) reaming	
		iii) line boring		

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