



FALL 2019-20 Continuous Assessment Test - I

Programme Name & Branch: B.Tech. (BME)

Course Code & Name: MEE1007 Manufacturing Processes

Class Number: VL2019201001648; VL2019201001878; VL2019201001882; VL2019201002234;

V:2019201006797

Slot: G1

5.

Exam Duration: 90 minutes

Maximum Marks: 50

Answer ALL the questions

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No.	Question	[5]
1.	Describe the stages involved in the shrinkage of metals during casting using	
	cooling curves.	[5]
2.	A rectangular steel product (length = 16 cm; width = 3.5 cm; height = 8.5 cm)	
-	is to be produced by the sand-casting process. Calculate the solidification	
	time, if the mold constant of Chvorinov's rule is 4.0 min/cm ² . Assume $n = 2$.	
	time, if the mold constant of Chvorinov's full is and theat	[5]
3.	Explain the casting defects that are cause by improper fluid flow and heat	1-1
	transfer in casting operations.	
4.	Select an ideal furnace to produce molten metal in huge quantity of cast iron.	[15]
5.	With neat sketches, explain the step by step procedure of the investment	[20]
	casting process. Provide some applications, advantages and limitations of this	
	process.	

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