GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V • EXAMINATION – WINTER • 2014

Subject Code:152501Date:26-1Subject Name:Casting TechnologyTime:10.30 am - 01.00 pmTotal MarInstructions:Total Mar			-	
Q.1	(a)	 (1) In the Sand Moulding top flask is known as a. Cope b. Drag c. Fillet 	01	
		 d. Cheek (2) In the Sand Moulding the bottom flask is known as a. Cope b. Drag c. Fillet 	01	
		 d. Cheek (3) In Sand Moulding, The middle Part of Flask is called e. Cope f. Cheek 	01	
		g. Drag h. Flask- Middle (4) Wax pattern is used in a. Shell Moulding b. Die Casting	01	
		 c. Investment casting d. Centrifugal casting (5)provides an added projection on a pattern and forms	01	
		 f. Core print g. Drag h. Cope (6) The taper provided on pattern for its easy and clan withdrawal from the mould is called a. Shrinkage allowance b. Draft allowance 	01	
		 c. Distortion allowance d. Casting allowance (7) Fettling is an operation performed a. Before casting b. During casting 	01	
	(b)	c. After castingd. Never in the Casting ProcessExplain the general step to make Casting Product.	07	

Q.2	(a)	Enlist different "Allowance" Provided in the Pattern and briefly explain any three of them with neat sketch.	07
	(b)	Write the function of "Core". Enlist different types of Core. Explain any three of them with neat sketch.	07
		OR	
	(b)	Briefly explain the different Properties of types of Moulding Sand.	07
Q.3	(a) (b)	Briefly explain the term Directional Solidification with neat Sketch. Explain the function of different parts in the Gating System with neat sketch.	07 07
		OR	
Q.3	(a)	Write the function of Riser and Briefly Explain How it is helpful for Directional Solidification.	07
	(b)	Explain the different Operations Carried out in the Fettling Process.	07
Q.4	(a)	Brief explain Investment Casting Process with neat sketch.	07
~ ···	(b)	Brief explain Shell Moulding with neat sketch.	07
		OR	-
Q.4	(a)	Brief explain Slush Casting Process with neat sketch.	07
	(b)	Brief explain Die Casting Process with neat sketch.	07
Q.5	(a)	Enlist Various Non Destructive Tests carried out for Casting Products. Explain	07
Q.3	(a)	Liquid Penetrant Test with its limitations.	07
	(b)	Enlist different types of Moulding Process. Explain any one of them with neat	07
	()	Sketch.	0.
		OR	
Q.5	(a)	Brief explain Cupola Furnace with neat Sketch.	07
·	(b)	Brief explain the different Cost occur for making Casting Product.	07
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