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BE - SEMESTER- IV EXAMINATION - SUMMER 2020

Subject Code: 2141908	Date:04/11/2020
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Subject Name: Manufacturing Processes -II

Time: 10:30 AM TO 01:00 PM Total Marks: 70

Instructions:

1.	Attempt al	l questions.
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- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1		Give broad classification of various manufacturing processes. Explain different types of cores used in casting process.	03 04
	(c)	What is pattern? List different types of materials used for pattern making. Explain the characteristic of any three of them.	07
Q.2	(a)	Explain draft allowances in casting.	03
	(b)	Explain the different types of flame used in gas welding process.	04
	(c)	Discuss the defects, causes and remedies of casting defects. OR	07
	(c)	Explain the working principle, advantage and limitation of electron beam welding process with neat sketch.	07
Q.3	(a)	Differentiate between soldering and brazing process.	03
	(b)	Discuss the function of inert gas. Enlist types of inert gas.	04
	(c)	Explain the working principle of Resistance welding. Differentiate between Spot and Seam Welding processes.	07
		OR	
Q.3	(a)	Explain the following terms:	03
	(1.)	1. Strain hardening 2. Recrystalization	0.4
		Discuss the advantage and limitations of hot and cold working.	04
	(c)	Describe and specify the merits of different kinds of rolling mills.	07
Q.4	(a)	How is seamless tubing pierced?	03
	(b)	Write short note on embossing.	04
	(c)	Describe the piercing and blanking processes. Also explain the terms: Ingot, slab, bloom and billet.	07
		OR	
Q.4	(a)	Why testing of foundry sand is necessary? What are the common tests performed on foundry sands?	03
	(b)	State difference between direct and indirect extrusion with sketch.	04
	(c)	How do you AC and DC compare for arc welding? What do you understand by the term polarity and what is the advantage and disadvantage of having different polarities?	07



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Q.5		What are plastics? What raw materials are used to produce plastic compounds?	03
	(b)	Explain with neat sketch injection moulding process.	04
	(c)	Explain with neat sketch compression moulding process.	07
		OR	
Q.5		What is a ceramic? State the applications of ceramic matrix composites.	03
	(b)	Enlist various ceramic structures and explain any one in detail.	04
		Draw the various glass structure explain properties and application of glass manufacturing.	07

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