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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-V (OLD) EXAMINATION - WINTER 2018

Subject Code:151901 Date: 27/11/2018

**Subject Name: Manufacturing Processes - II** 

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

**Instructions:** 

1. Attempt all questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	What is pattern? State the purpose of pattern. Name various factors which are considered for selection of pattern material.	07
	(b)	Define and Discuss: Fusion zone and Heat affected zone	07
Q.2	(a) (b)	Describe forge welding process in detail.  Explain steps involved in investment casting with its advantages and limitations.	07 07
		OR	
	(b)	Explain: Straight polarity and reverse polarity. Explain also effect of polarity on weld quality.	07
Q.3	(a)	Why oxy-acetylene flame cannot be used inside of pipes or structures subjected to oxygen depletion?	07
	(b)	Describe shell moulding process.	07
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Q.3	(a)	Explain theory of rolling with neat sketch and also explain forces involved in hot rolling	07
	(b)	Explain: Drop forging and press forging.	07
Q.4	(a)	Distinguish between wire drawing and tube drawing in detail.	07
	(b)	Explain: Metal spinning with its advantages and application	07
	(6)	OR	0,
Q.4	(a)	Explain different shearing operations	07
α	(b)	Explain: (i) Ingot (ii) Bloom (iii) Slab (iv) Billet	07
Q.5	(a)	What do you understand by 'Roll Piercing'? Explain with a simple sketch. List advantages of the same	07
	(b)	Discuss: (i) Barrel tumbling (ii) Burnishing (iii) Buffing	07
		OR	
Q.5	(a)	Discuss Transfer moulding and Injection Moulding with neat sketch	07

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(b) Explain how grain structure is affected during hot cold working