BE - SEMESTER-IV (NEW) EXAMINATION – WINTER 2018			
Subject Code:2141908 Date:12/12/2019 Subject Name: Manufacturing Processes II			18
Su	bject	Name:Manufacturing Processes -II	
	-	2:30 PM TO 05:00 PM Total Marks: 7	<b>70</b>
Ins	tructio	ons:	
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Define terms: (1) Pattern (2) Core and (3) Core binder.	03
	<b>(b)</b>	Enlist the patterns material and explain any two with their advantages and limitation.	04
	<b>(c)</b>	Explain classification of manufacturing process.	<b>07</b>
<b>Q.2</b>	(a)	What is indication of the black, red and yellow colour in patterns?	03
	<b>(b)</b>	Why shrinkage allowances and machining allowance has been provided to the patterns?	04
	<b>(c)</b>	Explain the properties of moulding sand.	<b>07</b>
		OR	
	<b>(b)</b>	Enlist various types of core. Explain any three cores with suitable sketch.	<b>07</b>
Q.3	<b>(a)</b>	Explain suitable condition for achieving the satisfactory weld.	03
	<b>(b)</b>	Explain electron beam welding process.	04
	(c)	Discuss with neat sketch TIG welding process. State advantages and limitation.  OR	07
Q.3	(a)	Enlist the various shielding gas. What is the purpose of shielding gas in welding?	03
	<b>(b)</b>	Differentiate between the brazing and soldering.	04
	<b>(c)</b>	Explain the friction welding process. States advantages and limitation.	<b>07</b>
Q.4	(a)	What are the effects of recrystallization?	03
	<b>(b)</b>	Explain the upsetting and drawing down operation with neat sketch.	04
	<b>(c)</b>	Explain forward and backward extrusion process with suitable sketch.	<b>07</b>
		OR	
<b>Q.4</b>		Explain following terms (1) Blanking (2) Piercing and (3) Coining.	03
		How the tubes is manufacturing?	04
o =	(c)	Distinguish hot working process and cold working process.	07
Q.5	(a)	What is the role of chaplets in casting process?	03
	<b>(b)</b>	Explain the vacuum thermoforming process.	04
	<b>(c)</b>	Explain the blow moulding process with neat sketch. States the limitation of it. <b>OR</b>	07
Q.5	(a)	Why backing is required for core before use of it?	03
<b>V.</b> 2	(a) (b)	Write short notes on ceramic matrix composites.	03
	(c)	Explain the compression moulding process.	07
		Explain the compression modeling process.	U I

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