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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – May 2019

Course: B. Tech in Mechanical Engineering Sem: IV

Subject Name: Manufacturing Processes I Subject Code: BTMEC401

Max Marks: 60 Date: 14-05-2019 Duration: 3 Hr.

Instructions to the Students:

- 1. Solve ANY FIVE questions out of the following.
- 2. The level question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question.
- 3. Use of non-programmable scientific calculators is allowed.
- 4. Assume suitable data wherever necessary and mention it clearly.

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		(Level/CO)	Marks
Q. 1	Solve Any Two of the following.		
A)	What is meant by Manufacturing Processes? How will you select any suitable	K1 and	6
	manufacturing process for the products?	K4/CO1	
B)	What is the requirement of shrinkage allowances? Explain the defects in the casting	K1 and	6
	processes.	<b>K2/CO1</b>	
<b>C</b> )	Describe any suitable metal casting process for manufacturing the pump casing.	K6/CO1	6
Q.2	Solve the following.		
A)	How will you roll any sheet material? Explain one rolling process in detail.	K3/CO2	6
B)	Differentiate between open die and closed die forging with its suitability and	K4 and	6
	applications	K5/CO2	
Q. 3	Solve Any One of the following.		
A)	What do you understand by extrusion and drawing processes? Explain one of the both	K2 and	12
,5	in detail.	K4/CO2	
<b>B</b> )	Define formability. Elaborate the sheet metal forming processing with various	K1 and	12
	characteristics and types of shearing dies?	K2/CO2	
<b>Q.4</b>	Write a short note on any Two of the following.		
<b>A</b> )	Arc welding and Oxy-fuel gas welding processes	K1 and	6
<b>B</b> )	Friction welding and resistance welding	<b>K2/CO3</b>	6
<b>C</b> )	Soldering techniques and Mechanical fastening		6
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# Q. 5 Solve Any One of the following.

processes.

A)	What are the types of lathe machines? Explain the various operations performed lathe	K3 and	12
	machines with developments, attachment and accessories.	K4/CO4	0014
B)	What is the need of drill machine and boring machines? Explain the various types of	K3 and	12
	drilling machines with reaming and tapping processes	K4/CO4	
Q. 6	Solve Any One of the following.		D 47 C
A)	What is the need of milling machines? Comment on the face and end milling machines	K6/C05	12
	with its suitable applications and processes capabilities.		
B)	If you would like to fabricate gears for the gear box of any vehicle, which suitable	K6/CO6	12
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manufacturing method will you select? Explain any two suitable gear manufacturing