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P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belgaum) Sixth Semester, B.E Mechanical Engineering Semester End Examination; June - 2016 Non Traditional Machining Time: 3 hrs Max. Marks: 100		
	te: Answer FIVE full questions, selecting ONE full question from each unit.	
0	UNIT - I	
1 a.	Compare the conventional and non conventional machining process.	10
b.	Give the detailed classification of non-conventional machining process.	1(
2 a.	With a neat sketch explain the working principle of USM.	10
b.	List the advantage and disadvantages of USM.	10
	UNIT - II	
3 a.	Explain the schematic diagram of AJM process.	10
b.	List and explain the parameters affecting the AJM process.	10
4 a.	Explain the mechanism of metal removal of EDM process with a simple sketch.	10
b.	List the advantages and disadvantages of EDM process.	1(
	UNIT - III	
5 a.	Explain with neat sketch ECM process.	1(
b.	Explain the different Maskants used in chemical machining.	1(
6 a.	Explain with neat sketch ECG	1(
b.	List the advantages and disadvantages of ECM.	10
UNIT - IV		
7 a.	With simple sketch explain the principle of generation of LASER.	10
b.	With a sketch, explain the equipment and working of solid state LASER.	10
8 a.	List the advantage, limitation and application of LBM.	10
b.	Explain various types of high velocity forming process.	10
	UNIT - V	
9 a.	With sketch explain the equipment and principle of generation of Plasma.	10
b.	List and explain the safety factors to be considered during PAM.	10
10 a.	Explain the working principle of EBM with a sketch.	1(
b.	Draw and explain types of torches used in PAM.	10