(06 Marks)

USN						
OBIT					-	

Write history about Non-Traditional machining.

Sixth Semester B.E. Degree Examination, Dec.2016/Jan.2017 Non-Traditional Machining

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART - A

1	a.	Write history about Non-Traditional machining.	(00 11111113)
1		D: Gloin the elegifications of NTM	(08 Marks)
	b.	Briefly explain the classifications of NTM.	(06 Marks)
	c.	Differentiate between conventional and non conventional processes.	Santa and a santa and a santa a
		MPP as applied to USM	(08 Marks)
2	a.	List and explain the effects of process parameters on MRR as applied to USM.	(06 Marks)
	b.	Sketch and explain the tool feed mechanism used in USM.	(06 Marks)
	c.	Discuss applications, advantages and disadvantages of USM.	(00 Marks)
			(0.4 Mayles)
3	a.	Discuss the variables in Abrasive Jet Machining.	(04 Marks)
	b.	Sketch and explain the working of AJM.	(08 Marks)
	c.	With neat figure explain Water jet machining process.	(08 Marks)
	v.	Will how segment	
4	0	Illustrate Electrochemical machining process.	(06 Marks)
4	a.	Discuss ECM tooling technique with example.	(06 Marks)
	b.	Sketch and explain Electrochemical grinding and honing.	(08 Marks)
	c.	Sketch and explain Electrochemical grinding and normals	
		PART - B	
		What is chemical machining? Explain with sketches the steps involved	in chemical
5	a.		(10 Marks)
		blanking.	(05 Marks)
	b.	What is meant by Hydrogen embrittlement?	(05 Marks)
	c.	List the advantages and disadvantages of CHM.	(03 Marks)
			(00 M - 1)
6	a.	Sketch and explain EDM process.	(08 Marks)
Ü	b.	Discuss the requirement of flushing in EDM process.	(06 Marks)
	c.	Illustrate EDM grinding.	(06 Marks)
	C.	Illustrate EDIT 8-11-5	
7		Discuss the equipments used in plasma are machining.	(06 Marks)
7	a.	Discuss the equipments used in plasma are sense.	(06 Marks)
	b.	List and explain PAM parameters.	(08 Marks)
	c.	Write applications, advantages and limitations of PAM.	•
		a la	(08 Marks)
8	a.	Draw neat figure and explain Laser beam machining.	(08 Marks)
	b.	Sketch and explain Electron beam machining.	(04 Marks)
	c.	Mention applications, advantages and limitations of EBM.	(04 marks)

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