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## Internal Assessment Test 1 – March. 2018

Sub:	NON TRADITIONAL MACHINING					Sub Code:	15ME665	Branch	MEC	CHANI	CAL
Date:	14/03/2018 Duration: 90 min's Max Marks: 50 Sem/Sec: OTES						TES			BE	
		<u>A</u>	nswer any FΓ	VE FULL Questi	ons			M	ARKS	CO	RBT
	Explain with machining pro					ng princip	le of ultraso	onic	[10]	CO2	L2
2 (a)	2 (a) Explain the working of water jet machining, with a neat sketch.							[05]	CO2	L2	
(b)	(b) Explain with schematic diagram the Abrasive jet machining process.							[05]	CO2	L2	
3 (a)	a) List the factors influencing process selection and explain any two.							[06]	CO1	L2	
(b)	b) What are the applications of WJM.								[04]	CO2	L2
4	Explain the need of NTM and give the complete classification of NTM.								[10]	CO1	L2

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Date:	14/03/2018 Duration: 90 min's Max Marks: 50 Sem/Sec: OTES			OBE	
	Answer any FIVE FULL Questions	MAR	RKS	CO	RBT
	Explain with the help of a neat sketch the working principle of ultrasonic machining process and also mention its advantages.	[10	0]	CO2	L2
2 (a)	Explain the working of water jet machining, with a neat sketch.	[05	5]	CO2	L2
(b)	Explain with schematic diagram the Abrasive jet machining process.	[05	5]	CO2	L2
3 (a)	List the factors influencing process selection and explain any two.	[06	6]	CO1	L2
(b)	What are the applications of WJM.	[04	4]	CO2	L2
4	[10	0]	CO1	L2	

5.	Explain how the following parameters influence the metal removal rate in abrasive jet machining process:  i) Nozzle tip distance ii) Velocity of abrasive iii) Abrasive flow rate iv) Gas pressure.	[10]	CO2	L2	
6.	Explain how various process parameters influence the material removal rate in ultrasonic machining process.	[10]	CO2	L2	

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5.	Explain how the following parameters influence the metal removal rate in abrasive jet machining process:  i) Nozzle tip distance ii) Velocity of abrasive iii) Abrasive flow rate iv) Gas pressure.	[10]	CO2	L2
6.	Explain how various process parameters influence the material removal rate in ultrasonic machining process.	[10]	CO2	L2