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Internal Assessment Test 3 – Nov. 2017

Sub:	o: NON TRADITIONAL MACHINING					Sub Code:	15ME554	Branch:	MEC	HANI	CAL
Date:	17/11/2017 Duration: 90 min's Max Marks: 50 Sem/Sec: 5 th Sem A &B								OBE		
		A	nswer any FΓ	VE FULL Questi	ions			MA	RKS	CO	RBT
1.	1. Sketch and explain the principle of electron beam machining process.									CO5	L2
2. (a)	What is LASE	R? Discuss	thermal fea	atures of Lase	r Ma	chining.		[(06]	CO5	L4
(b)	State the advan	ntages, disa	dvantages a	and application	ns of	EBM.		[(04]	CO5	L4
3. (a)	Write a note of	n different	types of lase	ers used in LE	BM p	rocess.		[(06]	CO5	L4
(b)	(b) What are the different components present in the EBM equipment.								04]	CO5	L4
4.	What are the a	dvantages a	and applicat	tions of laser b	oeam	machining'	?	[10]	CO5	L4
5.	Comment on t	he paramete	ers influenc	ing MRR in E	EBM.			[10]	CO5	L4
6.	With a neat sk	etch, explai	n the mech	anism of meta	l ren	noval in LB	M process.	[10]	CO5	L4

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Date:	17/11/2017 Duration: 90 min's Max Marks: 50 Sem/Sec: 5 th Sem A &									В ОН	
Answer any FIVE FULL Questions									RKS	CO	RBT
1. Sketch and explain the principle of electron beam machining process.									10]	CO5	L2
2. (a)	What is LASE	R? Discuss	thermal fea	atures of Laser	r Ma	chining.		[(06]	CO5	L4
(b) State the advantages, disadvantages and applications of EBM.								[(04]	CO5	L4
3. (a) Write a note on different types of lasers used in LBM process.								[(06]	CO5	L4
(b) What are the different components present in the EBM equipment.								[(04]	CO5	L4
4.	4. What are the advantages and applications of laser beam machining?								10]	CO5	L4
5.	. Comment on the parameters influencing MRR in EBM.									CO5	L4
6.	With a neat sk	etch, explai	n the mech	anism of meta	l ren	noval in LB	M process.	[10]	CO5	L4