

Third Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024 Non Traditional Machining

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module. 2. M : Marks, L: Bloom's level, C: Course outcomes.

		Module – 1	M	L	С
Q.1	a.	What are Non - Traditional Machining processes? Explain the	12	L2	CO1
		classification of NTM process.			
	-	Explain the comparison between Traditional and Non – traditional	0	10	001
	b.	Explain the comparison between Traditional and Non – traditional machining processes.	8	L2	CO2
		machining processes.			
		OR			
Q.2	a.	Sketch and explain the working principle of USM.	10	L2	CO2
	b.	Compare the effects of process parameters of USM and state the	10	L3	CO3
		applications.			
		Module – 2			
Q.3	a.	With a neat sketch, explain the working of AJM.	10	L2	CO3
¥.5			10		000
	b.	State the advantages and applications of AJM process.	10	L2	CO2
	- T	OR		~ •	~~~
Q.4	a.	Illustrate with a neat sketch, the ECM process.	10	L3	CO3
	b.	State and explain applications and advantages of ECG.	10	L2	CO2
	- T	Module – 3			
Q.5	a.	What are the two elements of CHM? Illustrate the process with an example.	10	L3	CO3
		Evaluate advantages and applications of CUM	10	L2	CO2
	b.	Explain the advantages and applications of CHM.	10	L2	02
		OR	I		
Q.6	a.	The process parameters govern the performance of PAM. Justify your	10	L3	CO3
×	(and)	answer.			
	1000				
	b.	Explain how Plasma Jet is used for other applications. Compare.	10	L3	CO4
		Madula			
Q.7	10	Module – 4 With a neat sketch, explain the working principle of EDM process.	10	L2	CO3
Q.1	a.	with a near sketch, explain the working principle of EDW process.	10		003
	b.	Enumerate the process parameters as EDM process.	10	L3	CO4
		4 A			
	1	OR	4.0		CC 1
Q.8	a.	With a neat sketch, explain the working of LBM process.	10	L3	CO4

BMR306A

Module - 5 D.9 a. Explain the mechanism of metal removal in EBM process. Compare with EDM process. 10 L3 C0 b. State and explain the applications and limitations of EBM process. 10 L2 C0 OR OR OR OR OR OR OR 0.10 a. With a neat sketch, explain the working of ECDM. 10 L2 C0 b. Explain the importance of Hyperic Machining process. 10 L2 C0 b. Explain the importance of Hyperic Machining process. 10 L2 C0						
2.9 a. Explain the mechanism of metal removal in EBM process. Compare with EDM process. 10 L3 C0 b. State and explain the applications and limitations of EBM process. 10 L2 C0 OR	onen ^e nde ez	b.	Explain the applications and limitations of LBM process.	10	L2	COS
2.9 a. Explain the mechanism of metal removal in EBM process. Compare with EDM process. 10 L3 C0 b. State and explain the applications and limitations of EBM process. 10 L2 C0 OR			Module - 5			
EDM process. 10 L2 CO b. State and explain the applications and limitations of EBM process. 10 L2 CO Q.10 a. With a neat sketch, explain the working of ECDM. 10 L2 CO b. Explain the importance of Hyperte Machining process. 10 L2 CO b. Explain the importance of Hyperte Machining process. 10 L2 CO	Q.9	a.	Explain the mechanism of metal removal in EBM process. Compare with	10	L3	CO4
OR Q.10 a. With a neat sketch, explain the working of ECDM. 10 L2 Co b. Explain the importance of Hybrid Machining process. 10 L2 Co						
2.10 a. With a neat sketch, explain the working of ECDM. 10 L2 Co b. Explain the importance of Hybrid Machining process. 10 L2 Co		b.	State and explain the applications and limitations of EBM process.	10	L2	CO:
2.10 a. With a neat sketch, explain the working of ECDM. 10 L2 Co b. Explain the importance of Hybrid Machining process. 10 L2 Co			ÓR, #		z	
	Q.10	a.		10	L2	CO
STA-STARA OST-STA		b.	Explain the importance of Hybrid Machining process.	10	L2	CO
STITUTE ST.	an a					
STANDARS ST. ST. ST. ST.						
SN-SN-ADA OF SN-SN-SN-SN-SN-SN-SN-SN-SN-SN-SN-SN-SN-S						
					3	
Smales and a stand of the stand						
SH-SH-ADA OP. H. OH. SH-SH-SH			*****			
STA STA OR STA STA						
Gris Standard Gris Stands	·					
STA STA OLA OLA STA						
GIA GIA GIA GIA						
Gin Gin Allandi Gin Gin Gin Gin Gin Gin Gin Gin Gin Gi						
GE GE ANDRE GE GE						
GER GER OLE GER GI						
Git Git Aller Git						
Gin and Arabit Gin Gin and Arabit						
GT ANDRE GT			St of St			
GF July GF G			GT ON GT			
GT OF GT			GT DUL GT			
Stor G			Stand and Stand			
St G			- GT - DOLA GT - GT			
N 65		5	Stand Charles State			
		5	Stand And Stand Stand			
		Ś	Standard Stand			
		Ś	Stander Stand Stand			

Alandar and a stand of the second