these fluids?

CBCS SCHEME

USN			18ME641
		Sixth Semester B.E. Degree Examination, Jan./Fel	. 2023
Non-Traditional Machining			
		Non-Traditional	
Tin	ne: 3	3 hrs.	Max. Marks: 100
	N	ote: Answer any FIVE full questions, choosing ONE full question from	n each module.
		Module-1	
1	a.	Define and classify non-traditional machining process with a neat chart.	(10 Marks)
	b.	Explain the need of non-traditional machining process.	(10 Marks)
		OR OR	
2	a.	Differentiate between traditional and nontraditional machining process.	(10 Marks)
	b.	List the advantages, disadvantages and applications of non-traditional n	nachining process.
		Sylvania Sylvania	(10 Marks)
		Module-2	
3	a.	Sketch and explain Ultra Sonic Machining Process (USM).	(10 Marks)
-	b.	Explain the influence of the process parameters on Material Removal R	
		OR OF	(10 Marks)
4	a.	With a neat sketch, explain the working principle of Abrasive Jet Mach	ining Process (AJM).
-	u.	What is near sketch, explainable working principle of the fact of	(10 Marks)
	b.	List the advantages, limitations and applications of Abrasive Jet Machin	
		Module-3	(10 Marks)
5	a.	With a neat sketch, explain the working of Electrochemical Machining	Processing (ECM).
·			(10 Marks)
	b.	What are the advantages, limitations and applications of electrochemica	
			(10 Marks)
	,	OR	
6	a.	With a neat sketch, explain the working principle of Chemical Machinin	ng Process (CHM).
·	A CONTRACTOR OF THE PARTY OF TH		(10 Marks)
	b.	What are the steps involved in chemical milling method and state its ap	plications? (10 Marks)
7		With neat sketch, explain the working principle of Electro Discharg	e Machining Process
7	a.	(EDM).	e Machining Process (10 Marks)
	h	What types of fluid used in electrochemical discharge machining and	

OR

With neat sketch, explain the working principle of Plasma Arc Machining (PAM). (10 Marks) What are the process parameters of Plasma Arc Machining (PAM)? Briefly explain. 8

(10 Marks)

(10 Marks)

Module-5

9 a. With a neat sketch, explain the working of Laser Beam Machining Process (LBM).

(10 Marks)

(10 Marks)

- b. What are the applications, advantages and limitations of Laser Beam Machining Process (LBM)? (10 Marks)
- 10 a. With a neat sketch, explain the working principle of Electron Beam Machining (EBM).

b. Comment on parameters influencing Material Removal Rate (MRR) in Electron Beam Machining (EBM) and state their application of EBM. (10 Marks)