	6.a) b)	4.a) b) 5.a)	b) 3.a) b)	2.a)) De de c	1.a) b)		Note:	Co
30 30 30 30	What is the principle of WJM? Describe the working of a WJM system with a neat sketch. [5+5] Define Dielectric? Write a note on it indicating its functions and characteristics? Explain the process of wire cut EDM and list any two of its advantages, limitations and applications OR	State and explain the working principle of Abrasive Jet Machining in detail. Briefly explain the warious process parameters that affect the material removal rate and surface quality in ECM. OR Explain the different variables that influences the rate of metal removal and accuracy in Abrasive Jet Machining?	What are the basic requirements of tool feed mechanism in USM process? Explain. Explain the various applications of Non-traditional machining process in detail. [5+5]	What are the main parameters to be cons. Why?		What are the various types of energy sources used in non-traditional machining techniques? Give examples for each. [2] Differentiate the conventional and unconventional machining processes in terms of principles.	Part- A	.: :	Code No: 117JH JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV.Year I Semester Examinations, November/December - 2016 (Conventional Machining Processes: (Mechanical Engineering) Max. Marketing: 3 Hours
,40 60	WJM? Describe the very lead to the very	working principle or inious process parame variables that influence?	uch influence: the meta irrements of tool feed pplications of Non-t	P parameters to be	ble for UCM processes ble for brittle material material used in EDN fluids commonly used of Laser beam? thermal and Non-th of applying maskant?	s types of energy sou	s 10 marks and may P	contains two parts A sory which carries 5 Units. Answ	NEHRU TECHNO ar I Semesfër:Exan NCONVENTIONAL (Mechani
70 60	working of a WJM syst	f Abrasive Jet Machi eters that affect the n OR uences the rate of n	OR mechanism in USM praditional machining	Part-B are the main parameters to be considered while selecting	s. ls? Explain, A? in: [] in EDM process? ermal process in EBI	rces used: in ron-tradi	y have a, b, c as sub q: Part- A	arks.∷∧ y one	o: 117JH JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IX:Year I Semester:Examinations, November/December - 2016 UNCONVENTIONAL MACHINING PROCESSES
70 69	em with a neat s	ning in detail. natėriai rėmoval netal removal	l. Explain briefly cocess? Explain. process in deta	ಣ	M process?	tional; machinin,	uestions.	iėstion i fro	RSITY HYDE 21/December - CESSES:-
7U 63	sketch. [5+5] [5+5] [5+5] sketch. [5+5] [5+5]	rate and surface [5+5]	/.[5+5]]; ail. [5+5]	[3]: [50 Marks) particular process?	ಶ್ವದ ಪ್ರಕ್ರಾವ ಪ್ರವ	(25 Marks) g techniques? Give [2] [principles.		s in Path A.	ERABAD 2016 Significant Street Stree
70 60		Ž S) (3)	70 30	70 60	740 (5)		.70 (D)	70 (S)
		#U #D	20 (30	70 (5)	11.a) With neat diag and application b) Discuss the crit	10.a) Describe b) Describe	9.a) Enumera b) Describe,	8.a) Explain process? b) Make a co	
70 (S)	70 60	70 (S)	,70 (3)) (S)	t diagram explain ation. e criteria's that ar	the Process param	te the advantage with the help of n	Explain the various process paramet process? Make a comparison between LBM and E beam, applications and limitations.	What are the desirable properties of a di Explain the functions of dielectric fluid. What are the important process pagane any four factors.
70 60		70 60		XU SO	the principle of plue applied in the se	eters of PAM and achining and acc	s, limitations and eat sketch, the pri	cess parameters n LBM and EBM tations :::	erties of a dielect electric fluid. cess paramëters t
7401 (S.)	Ö	740 650	70 30	70 (3)	With neat diagram explain the principle of plasma arc machining. State its advand application. Discuss the criteria's that are applied in the selection of etchant and maskants? ooOoo	I influence on mac curacies obtainat	OR · · · · · · · · · · · · · · · · · · ·	which influence processes on the l	ric fluid? Gives so
AT CD	,70 60	70 10 10	70 60	70 60	With neat diagram explain the principle of plasma arc machining. State its advantages, limitatic und application. Discuss the criteria's that are applied in the selection of etchant and maskants? [5+5] 00000	a) Describe the Process parameters of PAM and influence on machining quality? Explain b) Describe the quality of machining and accuracies obtainable in chemical machining? [5+5]	Enumerate the advantages, limitations and applications of Laser Beam Machining? Describe, with the help of neat sketch, the principle and working of an EBM machine.	Explain the various process parameters which influence in Metal removal Rate in process? Make a comparison between LBM and EBM processes on the basis of their working, control of begin, applications and limitations in the limitation in the	What are the desirable properties of a dielectric fluid? Gives some examples for dielectric fluid Explain the functions of dielectric fluid. What are the important process parameters that control the material removal rate in EDMA: any four factors.
740 030	70 60		70 (2)	, 70 (2)	ages, limitatio	plain achining ⁹ [5+5]	: ". :! chining? nine. [5+5]	val Rate in ing, control of	lielectric fluid :::KMZ::: e in EDM3:::