		CBCS Scheme	
USN	7		15AU46
USIN		Fourth Semester B.E. Degree Examination, Dec.2017/Jan.20	18
		Manufacturing Process - II	
Tim	.e. 3	3 hrs.	arks: 80
1 111		Note: Answer any FIVE full questions, choosing one full question from each mod	dule.
	N	Module-1	
1	a.	With suitable sketches, explain different types of chips produced during machining	ig. (06 Marks)
	b. с.	The following data refer to an orthogonal cutting process. Chip thickness 0. 0.2mm, rake angle 15°. Calculate chip reduction co-efficient and shear angle.	
		OR	
2	a. b.	will be desirable properties or characteristics of cutting tool material	(00
3	a. b.	Towns lathe and Canstan lathe	(10 Marks) (06 Marks)
4	a. b.	with neat sketch.	shaper, (10 Marks) (06 Marks)
		Module-3	hina
5	a. b	milling with a neat sketch.	(10 Marks) (06 Marks)
	Ü	OD.	
6		 With a neat sketch, explain clearly the construction and working principle grinding machine List the various grinding wheel abrasives and bonding processes. 	of cylindrical (10 Marks) (06 Marks)
	-	Madula-4	() (3)
	7 a	a. With a neat sketch, explain clearly the construction and working principle of R	25, 26, 25, 25, 25
	ł	 b. With suitable sketches, explain the following operations using drilling machine i) Tapping ii) Counter boring. 	(06 Marks)

OR

Briefly explain the honing process with a neat sketch. State its advantages and 8 (08 Marks)

b. With a neat sketch, explain the Lapping process. State its advantages and disadvantages. (08 Marks)

Module-5

- a. Explain the working principle and operation of Laser Beam machining (LBM) with a neat sketch. State its advantages and disadvantages.
 - b. Explain with neat sketch, Plasma Arc Machining (PAM). Give its merits and demerits.

 (08 Marks)

OR

- 10 a. With the help a neat diagram, explain construction and working principle of Ultrasonic Machining (USM). (08 Marks)
 - b. Sketch and explain the principle and operation of Abrasive Jet Machining (AJM). Give its merits and demerits. (08 Marks)