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Code: 9ME-43

Register   Number			100	200	
Humber				_	_

IV Semester Diploma Examination, April/May 2013

## MANUFACTURING TECH - II

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[ Max. Marks : 100

(i) Section No. I is compulsory.

(ii) Answer any two full questions from sections II, III & IV.

## SECTION-I

Fill i	in the blanks: $1 \times 5 = 5$	5
(i)	In shaper, the tool removes material in backward stroke than	
(1)	forward stroke.	
(ii)	attachment is used for dividing the periphery of a workpiece	
	in milling machine.	
(iii)	EDM is also known as	
(iv)	The plastics which can be softened again and again by heating are called	
(v)	is a device which holds and locates a workpiece but it does	
	not guides the tool.	_
Exp	lain the purpose of cutting fluids.	5
	SECTION - II	
Mer	ntion the classification of shaper.	4
Exp	lain with a sketch crank and slotted link mechanism of shaper.	6
Wri	te a line diagram of planer and mention its parts.	5
Evr	plain Grit, Grade and structure of grinding wheels.	6
	plain balancing of Grinding wheels.	5
	rite a short note on diamond wheels.	4
	st the differences between planer and slotter.	6
	ith an example, write the specification of grinding wheel.	3

- (c) Write short note on :
  - (i) Honing process
  - (ii) Polishing process

## SECTION - III

5. (a) Sketch and label the parts of column and knee Milling machine.

QUESTIONS Rua Dels. Explain angular indexing.

- 6. (a) Write the differences between conventional & Non-conventional methods.
  - (b) Sketch and explain Abrasive jet machining.
  - (c) List the advantages and disadvantages of Laser Beam Machining proce
- 7. (a) Mention the important differences between Up Milling & Down process.
  - (b) Explain Gear Hobbing.
  - (c) On what principle Ultrasonic machining works?

## SECTION-IV

- 8. (a) Write the differences between Jigs & Fixtures.
  - (b) Mention different types of Jigs and Fixtures.
  - (c) Explain with a neat sketch Diameter Jig.
- 9. (a) What is Polymerisation? Explain Addition Polymerisation.
  - (b) Explain with a sketch Injection Moulding process.
  - (c) Explain briefly calendering process for thermoplastic material.
- 10. (a) Explain with a sketch production of metal powder by Atomisation production
  - (b) Write important characteristics of metal powders suitable for )
    metallurgy process.
  - (c) What is secondary operations in powder metallurgy?

Hours ]

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