Faculty of Engineering & Technology Fourth Semester B.E. (Mechanical Engineering) (C.B.S.) Examination MACHINING PROCESSES

Time—Three Hours]

[Maximum Marks—80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Solve SIX questions as follows:

Que. No. 1 OR Que. No. 2

Que. No. 3 OR Que. No. 4

Que. No. 5 OR Que. No. 6

Que. No. 7 OR Que. No. 8

Que. No. 9 OR Que. No. 10

Que. No. 11 OR Que. No. 12

- (3) Due credit will be given to neatness and adequate dimensions.
- (4) Illustrate the answers with necessary figures/ drawings wherever necessary.
- (5) Use of Non-programmable calculator is permitted.
- (6) Assume suitable data wherever necessary.
- (a) Draw a neat sketch of single point cutting tool and describe its various angles.

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	(p)	Explain the mechanism of chip formation with ne	at
		sketch.	6
		OR	₹ %
•	(a)/	What are various cutting tool materials? Discutheir properties.	iss 7
	(p)	Discuss the properties of cutting fluids. 'An effection coolant uplift the tool life and surface finish.' Discussion	
	508		6
3.	(a)	Draw a labelled sketch of centre lathe. Discuss	its
		major parts.	7
	(b)	Differentiate Capstan and Turret Lathe.	6
		OR	
4.	(a)	What are the various methods of Taper Turning Explain.	g? 7
	(b)	Discuss Lathe Machine specifications in detail.	6
5.		Explain with the help of neat sketch working princi	1
	(b)	Explain with the help of diagram the principle quick return mechanism.	of 7
		OR	
6	. (a	Explain construction and working principle of slo	tter 7

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machine, with neat sketch.

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	(b)	Explain with neat sketch hydraulic drives in shaper.
e2	:	7
7.	(a)	Explain column and knee type Milling Machine with neat sketch.
	(p)	What are the main attachment used on a Milling Machine?
		OR
8.	(a)	What is Indexing? What are various types of Indexing? Explain.
	(b)	Explain the utility of special purpose milling machine. Discuss profile milling machine.
9.	(a)	Explain with neat sketch external and internal centreless grinding.
	(b)	Explain 'Grit', 'Grade' and structure of a grinding wheel.
*		OR
10.	(a)	What are various superfinishing operations? Explain Honing and Lapping.
	· (b)	Explain with neat sketch the process of galvanizing and electroplating.
11.	(a)	Explain with neat sketch planer type horizontal boring machines.
		2) 20 <u>→</u> 1 1.000 •

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	(b)	What are various types of Drilling Machines? Ex Radial Drilling Machine with neat sketch.	kplaiı 7
		OK	
12.	(a)	Explain the process Broaching. Explain with s pull types broaching machine.	ketcl
8	(b)	What is Reaming? State various types of rea	mers
			3
	(c)	Explain Jig boring machine.	4

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