No. of Printed Pages: 2

BIME-014

B.Tech. – VIEP – MECHANICAL ENGINEERING (BTMEVI)

Term-End Examination December, 2014

BIME-014 : PRODUCTION TECHNOLOGY - II				
Time : 3 hours		hours Maximum Marks:	Maximum Marks: 70	
No		Attempt any five questions. All questions car qual marks.	~ry —	
1.	(a)	Compare the merits and demerits of Turret and Capstan lathes with an engine lathe.	7	
	(b)	Describe three important methods of holding work in a lathe.	7	
2.	(a)	Draw the block diagram of a horizontal shaper and describe the working of its important parts.	7	
	(b)	Explain the difference between Plain Shapers and Universal Shapers.	7	
3.	(a)	Sketch and explain the working of a plain column and knee type milling machine.	7	
	(b)	Describe the three types of milling cutters according to the method of mounting the cutters.	7	

 (b) With the help of a neat sketch, discuss the working of a surface broaching machine. 5. (a) Sketch and explain reaming, counter-boring, counter-sinking and spot facing operations. (b) With the help of a neat sketch, show the different angles of a drill and explain them in brief. 6. (a) How is the grinding wheel selected for a particular job? What do you mean by dressing and truing of grinding wheels? (b) Sketch and explain three methods of cylindrical grinding. 7. (a) Briefly describe the various components of an NC machine. (b) What is an NC part programming? Describe the sequence of using NC words in a part program. 8. Write short notes on any four of the following: 4×3½ (a) Milling machine indexing (b) Computer aided part programming (c) Work holding devices of shaper machine (d) Centreless cylindrical grinding (e) Work holding devices in lathe machine 	rig machine. 7 counter-boring, and operations. 7 etch, show the discrete for a you mean by any wheels? 7 methods of 7 components of 7 components of 7 defollowing: $4 \times 3\frac{1}{2} = 14$ aming for machine g
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