## B.Tech. MECHANICAL ENGINEERING (BTMEVI)

## **Term-End Examination**

June, 2013

## **BIME-014: PRODUCTION TECHNOLOGY - II**

Time: 3 hours		ours Maximum Marks	Maximum Marks : <b>70</b>	
Note: Answer any five questions only. Assume suitable dat any missing. All questions carry equal marks.			ıta if	
1.	(a)	Why are engine lathes called by that name? Explain five main parts of a lathe.	7	
	(b)	List and describe commonly used lathe attachments on lathe machines.	7	
2.	(a)	Briefly explain the classification of shapers. With a simple sketch explain table feed mechanism of shaper.	7	
	(b)	Differentiate between shaping, planing and slotting, as regards with tool and work motions.	7	
3.	(a)	What are the salient differences between a plain and universal milling machine? Name common work holding devices used in milling machines.	7	
	(b)	Explain the difference between up milling and down milling with fig.	7	

What are the principle types of broaching 7 4. (a) machines? Why roboust fixtures are required to support jobs to be broached? Describe continuous type broaching (b) 7 machine. How a broaching machine is specified? Sketch and describe the essential elements 5. 7 (a) of a twist drill. How drill sizes are designated? Describe the constructional features of a (b) 7 horizontal boring machine. What are the various factors to be 7 6. (a) considered in selection of grinding wheel? Discuss each in detail. Describe the various types of abrasives. (b) 7 What are the differences between wheel dressing and wheel trueing. Describe the working principle of CVC 7 (a) 7. machine with the help of a block diagram. List the most common part programming (b) 7 languages. Describe any one of them in brief. Write short notes on any four of the following:  $3\frac{1}{2}x4=14$ 8. Thread cutting operation (a) Turret lathe (b) (c) Face milling Broaching tools (d) Gear hobbing (e) Work holding devices in Drilling machine (f)

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