B.Tech. MECHANICAL ENGINEERING (BTMEVI)

01875

Term-End Examination

June, 2012

BIME-014: PRODUCTION TECHNOLOGY - II Maximum Marks: 70 Time: 3 hours Answer any five questions only. Assume suitable data Note: if any missing. Describe a suitable method of feeling the bar 1. (a) 7 stock on Capstan and turret lathes. How is a lathe specified? Explain with a (b) 7 neat sketch the relevance of each of the specification points. What is meant by the terms 'drilling' and 7 2. (a) 'boring'? How do they differ from each other? Describe the main constructional features (b) 7 of a horizontal boring machine. Explain with the help of a neat sketch, the 3. 7 (a) · working principle of a shaper. What are the different devices used for (b) 7 driving the table of a planer? Explain one of them.

4. (a) Explain two milling operations with neat 7 sketches. Describe the 'Indian standards' method of (b) specifying a grinding wheel. Draw a fig of an internal pull type broach 5. (a) 7 and indicate the various terms relative to its teeth. (b) Explain the various elements of hob with 7 the help of neat sketch. (a) Describe the working principle of NC 6. 7 machine with the help of a block diagram List the common part programming (b) 7 languages. Describe any one of them in brief. Explain the 'point -to-point' and straight line 7. (a) 7 system of tool positioning in NC machine. What are turning centres? Briefly describe (b) 7 the CNC Turning Centre. 8. Write short notes on any four of the following: $3^{1/2}x4=14$ (a) Collect Chuck Up milling and Down milling (b) Shaping operations (c) Constant load per tooth in Broaching (d) (e) DNC machine Interpolation. (f)