## DIPLOMA - VIEP - MECHANICAL ENGINEERING III SEM

## Term-End Examination June, 2012

BME-059: MANUFACTURING PROCESS - III

Maximum Marks: 70 Time: 2 hours Answer any five questions. Explain the working of horizontal and 1. 7 (a) coloumn type milling machine with neat sketch. How the milling cutters are classified? 7 (b) Explain with neat sketches the various types of cutters used on milling machine. Explain the effect of cutting speed, feed and 7 2. (a) depth of cut on the finish obtainable on a milling machine with suitable examples. Explain the working of horizontal (b) 7 broaching machine with neat sketch. What are the types of presses? Explain the 3. (a) 7 working of mechanical press with neat sketch. What is high speed presses? List out the (b) 7 various application of press.

(a) What is meant by Tigs and fixtures? List out their uses and applications in manufacturing indusrties. (b) What are the types of clamps? Explain any 7 one type with neat sketch. Explain the process of Electric Chemical 5. (a) 7 Machining (ECM) with neat sketch and state its application. (b) Explain the process of ultrosonic machine 7 with neat sketch and state its application. (a) 6. Explain the working principle of Gear 7 Hobbing machine with neat sketch. Describe about the Gear finishing operation (b) 7 with suitable examples. Explain the working of injection moulding 7. (a) 7 machine with neat sketch. (b) What are the diffrent types of plastics? List 7 out their properties. 8. Write short notes on the following: 4x3.5=14(a) Gear shaping cutters (b) Plasma arc machining (c) Locating devices (d) Die clearance

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