01483

B.Tech. MECHANICAL ENGINEERING (BTMEVI)

Term-End Examination December, 2012

BIME-009: PRODUCTION TECHNOLOGY-I Time: 3 hours Maximum Marks: 70 Note: Answer any ten questions. All questions carry equal marks. What is meant by core prints? Explain why they 1. 7 are provided in the mould. 2. Explain the method of determining the moisture 7 content in a moulding sand. 3. How does cold rolling differ from hot rolling in 7 terms of the process and product? Why is the strength of a rolled part considered usually better than a cast piece? Distinguish clearly between drop forging and 4. 7

4. Distinguish clearly between drop forging and press forging processes with reference to the process and products obtained.

BIME-009 1 P.T.O.

5. Explain with sketches the differences between 7 direct and indirect extrusion. Explain various steps in cold chamber die casting 6. 7 and compare it with hot chamber die casting on the basis of operating parameters and properties of the product. 7. What are various allowances given to a pattern? 7 Explain with sketch. 8. Explain briefly with neat sketch the process of 7 wire drawing. 9. What is the role played by clay in a moulding 7 sand? What is the method adopted for determining the clay content in a moulding sand? Explain how a grinding wheel is specified. 10. 7 Differentiate between Honing and Lapping. 11. Differentiate between punching and blanking? 7 Give examples of each. 12. Describe the method of high velocity forming of

forming process.

metals. Give applications and limitations of the

7