GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC - SEMESTER-V. EXAMINATION - SUMMER 2016

Subject Code:X51902 Date: 13/05/2016 **Subject Name: Manufacturing Process - II** Time:02:30 PM to 05:00 PM **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 (a) Discuss the various types of patterns. 07 07 **(b)** Explain the different types of sands used in molds. **Q.2** (a) Explain with neat sketch the working principle of True centrifugal 07 casting. **(b)** Discuss the criteria for the selection of the manufacturing processes. 07 OR **(b)** Discuss the various defects occur in sand castings. 07 Q.3 (a) Discuss the different types of welding flames. 07 **(b)** Describe with neat sketch the working principle of Tungsten inert gas 07 (TIG) welding. OR (a) Explain with neat sketch the difference between leftward and 07 **Q.3** rightward gas welding techniques. **(b)** Explain with neat sketch the working principle of Laser beam welding **07 Q.4** (a) Give the comparison between hot and cold rolling of metals. 07 List the different types of forging processes and explain any one of 07 them. **Q.4** (a) Discuss various types of rolling mills. 07 **Q.4 (b)** Explain with neat sketch various methods of extrusion. 07 **Q.5** (a) List the different types of plastic molding processes and explain any 07 one of them. **(b)** Explain the term lapping and Horning. 07 OR Q.5 (a) Write a short note on Deep drawing. 07 **(b)** Explain with neat sketch the term Coining and Embossing. 07
