Seat No.:	Enrolment No.

Subject Code: X 51902

GUJARAT TECHNOLOGICAL UNIVERSITY PDDC-SEMESTER V-• EXAMINATION - SUMMER - 2016

Date:24/11/2016

Subject Name: Manufacturing Process-II Time:10:30 AM to 1:00 PM **Total Marks: 70 Instructions:** 1. Attempt all questions. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. (a) Classify manufacturing process. Enlist criteria for selection of manufacturing 07 **Q.1** process. (b) List various materials used for pattern and describe advantage and disadvantage 07 of pattern. 07 0.2 Explain the following with neat sketch: (i) Core print (ii) Sweep pattern (iii)Match plate pattern (iv) Draft allowance. (b) Explain different types of allowances in casting. 07 (b) List the functions of the gating system. 07 Describe casting defects stating their causes and remedies. 07 Q.3 (a) Explain the TIG arc welding. Give the application. 07 (b) 0.3 Write short note on Electron Beam welding. 07 (a) (b) Explain types of oxy-acetylene flames. 07 **Q.4** Explain Blanking, Piercing, Coining and Embossing. 07 (a) Describe wire and tube drawing process with neat sketch. 07 (b) OR 07 0.4 (a) Explain with sketches the difference between direct and indirect extrusion. Explain the principle of resistant welding and explain the seam welding process (b) 07 with neat sketch. Q.5 (a) Describe injection moulding process of plastic with neat sketch. 07 List the various super finishing processes and explain any two of them. (b) 07 OR Q.5 Classify the types of plastics along with the general properties of plastics. 07 (a) (b) Explain thermoplastic and thermosetting plastic materials. 07
