

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER- V(OLD) EXAMINATION – SUMMER 2019****Subject Code:151901****Date:07/06/2019****Subject Name:Manufacturing Processes - 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.

- Q.1** (a) Classify manufacturing processes and discuss the criterion for selection of manufacturing process. **07**
(b) Enlist various pattern used in casting process and briefly explain any three out of them. **07**
- Q.2** (a) Explain with neat sketches types of gating systems used in casting. **07**
(b) List out various pattern allowances and discuss them. **07**
- OR**
- (b) State and explain various types of casting defects, causes of defects and its remedies. **07**
- Q.3** (a) Explain the flame characteristics of gas welding process with a neat sketch. **07**
(b) Discuss with neat sketch TIG welding process. State its advantages, limitations and applications. **07**
- OR**
- Q.3** (a) Write a short note on: “Electron Beam Welding” **07**
(b) Explain seam welding process with the help of sketch. Differentiate seam welding and spot welding. **07**
- Q.4** (a) What is re-crystallization temperature? Differentiate hot working and cold working. **07**
(b) Write short note on: “Wire Drawing and Tube Drawing Processes”. **07**
- OR**
- Q.4** (a) List the factors influencing rolling process. Explain the effect of roller diameter and metal friction on rolling process. **07**
(b) With neat sketch explain blanking, piercing, coining, embossing, drawing and squeezing. **07**
- Q.5** (a) Briefly explain injection moulding process **07**
(b) Enlist super finishing process and explain Honing. **07**
- OR**
- Q.5** (a) Explain the classification of plastics with their applications. **07**
(b) Explain cylindrical and center less grinding process. **07**
