| Seat No.: |  |
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## **GUJARAT TECHNOLOGICAL UNIVERSITY** PDDC - SEMESTER- V • EXAMINATION – SUMMER-2015

|     | •          | t Code :X51902.  | Date: 11/05/2015          |
|-----|------------|--|---------------------------|
| Ti  | -          | t Name : Manufacturing Process - II<br>2:30 pm - 05:00 pm<br>ons:  | Total Marks: 70           |
|     | 2          | <ul><li>Attempt all questions.</li><li>Make suitable assumptions wherever necessary.</li><li>Figures to the right indicate full marks.</li></ul> |                           |
| Q.1 | (a)<br>(b) | What are the Importance of Allownces in casting process ?<br>Explain Different Criteria for Selection of Manufacturing Process                   | <b>07</b><br>5. <b>07</b> |
| Q.2 | (a)<br>(b) | What is a role of break-even analysis in manufacring industries ? Define the term pattern & classify it.   | 07<br>07                  |
|     |            | OR   |                           |
|     | <b>(b)</b> | Enlist Various moulding sands & explain in detail.   | 07                        |
| Q.3 | (a)<br>(b) | Classify the different tools & equipments used in foundry.<br>What is core & cavity ? Classify them.   | 07<br>07                  |
|     |            | OR   |                           |
| Q.3 | (a)<br>(b) | Define casting process with merits & demerits.<br>What is gate, runner & riser ? Explain with sketch.  | 07<br>07                  |
| Q.4 | (a)<br>(b) | Classify the metal joining process. Explain any one.<br>Explain TIG arc welding with applications.   | 07<br>07                  |
|     |            | OR   |                           |
| Q.4 | (a)<br>(b) | Explain the principle of resistant welding.<br>Classify hot Working & Cold working process.  | 07<br>07                  |
| Q.5 | (a)<br>(b) | Describe the manufacturing process of mineral water bottle with<br>Compare thermoplastic & thermosetting materials with example.                 | -                         |
|     |            | OR   |                           |
| Q.5 | (a)<br>(b) | Explain drawing process with practicle example.<br>List the various supper finishing processes & explain any two.                                | 07<br>07                  |

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