

GUJARAT TECHNOLOGICAL UNIVERSITY
BE- SEMESTER– 1st / 2nd EXAMINATION – SUMMER 2016

Subject Code: BSC001**Date: 02/06/2016****Subject Name: Chemistry****Time: 02:30 PM to 5:30 PM****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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| Q.1 | (a) | Explain factors affecting corrosion. | 07 |
| | (b) | Give detailed classification of polymers with examples. | 07 |
| Q.2 | (a) | Write a note on advantages offered by Nanotechnology. | 07 |
| | (b) | Discuss soda-lime method. | 07 |
| Q.3 | (a) | Give atleast four major differences between temporary and permanent hardness. | 07 |
| | (b) | Explain addition polymerization with suitable examples. | 07 |
| Q.4 | (a) | Give differences between thermosetting and thermoplastic polymers. | 07 |
| | (b) | What are refractories? Give examples and their significances of different types of refractories. | 07 |
| Q.5 | (a) | Give preparation, properties and uses of nylon 6,6. | 07 |
| | (b) | Explain condensation polymerization with examples. | 07 |
| Q.6 | (a) | Explain Ion-Exchange method for water purification. | 07 |
| | (b) | Explain preparation properties and uses of Bakelite. | 07 |
| Q.7 | (a) | Write a note on Disadvantages of hard water. | 07 |
| | (b) | Write a note on Theories of Corrosion. | 07 |
