

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 |
