

Enrolment No.

**M.E –II<sup>st</sup> SEMESTER–EXAMINATION – JULY- 2012**

**Date: 12/07/2012**

**Total Marks: 70**

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- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

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|------------|------------|--|-------------|
| <b>Q.1</b> | <b>(a)</b> | <b>Discuss in detail about Chlorinated NR.</b>                       | <b>(07)</b> |
|            | <b>(b)</b> | <b>Write the properties &amp; uses of Hydrohalogenated NR.</b>       | <b>(07)</b> |
| <b>Q.2</b> | <b>(a)</b> | <b>Discuss the advantages of Polymethyl methacrylate grafted NR.</b> | <b>(07)</b> |
|            | <b>(b)</b> | <b>Short note on mixing effects in fibre orientation.</b>            | <b>(07)</b> |

**(b) List the methods for the analysis of Fiber orientation. Write any two (07) in detail.**

- Q.3** “Hydrogenation of Synthetic Elastomers is an excellent example of a Chemical modification process.” Justify the statement in detail. (14)

**Q.3 Discuss in detail about the Tetrafluoroethylene-Propylene Elastomers. (14)**

- Q.4 Write about the basic structure & method of production for Acrylic-Based Elastomers. (14)**

**Q.4 Discuss in detail about the applications of Acrylic based Elastomers. (14)**

- Q.5 (a) Short note on Compounding & Mixing of Cross-linked Polyethylene. (07)**
- (b) Write in detail about Properties & applications of Cross-linked Polyethylene. (07)**

**Q.5 Explain in detail about Basic Structure of Cross -linked Polyethylene. (14)**

