

Roll No. \_\_\_\_\_

Total Printed Pages : **3****04BEE103****B.TECH.ELECTRICAL & ELECTRONICS ENGG.****IV- SEM Examination, May/June - 2016****SUB :ELECTRICAL ENGG. MATERIALS****Time : 3 Hours]****[Total Marks 60**

Use of following supporting material is permitted during examination.

1. \_\_\_\_\_ Nil \_\_\_\_\_      2. \_\_\_\_\_ Nil \_\_\_\_\_

*Note: 1. Attempt any five questions.**2. Each question carry equal marks.*

1. Describe the various dielectric polarization mechanism. What is complex dielectric constant? How does it vary with frequency of applied field.

**OR**

Explain how the dielectric constant of a ferromagnetic crystal varies with temperature. Name two ferromagnetic materials. What are the applications of ferroelectric materials.