



# SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)  
COIMBATORE-641 035, TAMIL NADU



## DEPARTMENT OF MECHANICAL ENGINEERING QUESTION BANK

Faculty i/c : **Dr. G. Yuvaraj**

Academic Year : **2024-2025 (Odd)** Semester : **III**

Year & Branch : **II MECH B** Course : **23MET203 & Engineering Materials & Metallurgy**

### UNIT V- NON METALLIC MATERIALS

1. Explain the properties and application of the PVC, PE, PTFE, and ABS
2. Give the detailed account on:
  - (a) Urea formaldehydes
  - (b) Fibre reinforced plastics
  - (c) Cellulose nitrate.
3. Explain PMMA.
4. What is polymerization? Describe addition polymerization and condensation polymerization.
5. How plastic materials are classified? Explain each classification.
6. Write brief notes on following traditional ceramics
  - (a) Clay products
  - (b) Glasses
  - (c) Cements
  - (d) Refractory's
7. Describe the properties and applications of following structural ceramics
  - (a) Alumina
  - (b) Partially stabilized zirconia
  - (c) Silicon carbide (d) Silicon nitride (e) Sialon
8. Describe the structures, properties and applications of following commodity thermoplastic polymers
  - (a) Polyethylene      Polyvinylchloride      Polystyrene