

**Department of Applied Sciences & Humanities**

**F.E. Sem-II Academic Year – 2025-26**

**Question Bank for IA-I**

**Course Name- Engineering Materials**

- Q1. Numerical on Degree of polymerization, Density & mass, tensile strength of polymer
- Q2. Give the processing of natural rubber with its drawbacks.
- Q3. What is Natural Rubber? Give the Compounding of Rubber?
- Q4. Give the Synthesis, properties & applications of PMMA.
- Q5. Give the Synthesis, properties & applications of Polyurethane Rubber
- Q6 Define Compounding of plastic. What is the significance of each component added during compounding with example?
- Q7. Define Nanomaterials & Give the applications of Nanomaterials.
- Q8. What are Graphene? Discuss structure & properties of Graphene.
- Q9. Explain the various types of particulate reinforced composites? Mention their applications.
- Q10. What are Carbon Nanotubes? Difference between SWCNTS & MWCNTS
- Q11. Define & give the classification of bio composites with examples. Enlist the various application of Bio composites.