

Roll No.

Total No. of Pages : 01

Total No. of Questions : 08

**M. Tech (ME) (Sem.-1)**  
**ADVANCED ENGINEERING MATERIALS**

**Subject Code : MTME-101**

**M.Code : 74715**

**Date of Examination : 22-05-2023**

**Time : 3 Hrs.**

**Max. Marks : 100**

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1. What are advance materials? Explain the various properties required in engineering materials.
2. Discuss the important properties and applications of Composite materials.
3. Differentiate between metallic matrix and non-metallic matrix composite materials.
4. Explain the procedure of Physico-chemical surface modification of materials used in medicine.
5. Write the application of low and high temperature materials.
6. Write the procedure of manufacturing of bio-reactive glasses.
7. Explain the application of intelligent materials for bio-medical application.
8. Define and classify nanomaterials. Write the application of nanomaterials.

**NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.**