

**R18**

**Code No: 157EP**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech IV Year I Semester Examinations, February/March-2022**

**ENGINEERING MATERIALS**

**(Common to EEE, CSE)**

**Time: 3 Hours**

**Max. Marks: 75**

**Answer any five questions**

**All questions carry equal marks**

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1. Explain the properties and applications of TRIP steels. [15]
2. Explain the properties and applications of maraging steels. [15]
3. Define super alloys. Explain the applications and properties of Ni based super alloys. [15]
4. Explain the thermo-mechanical treatments of Co based super alloys. [15]
5. Explain the applications and properties of Pyro materials. [15]
6. Explain the applications and properties of Piezo materials. [15]
7. Explain the chemical composition, properties and applications of austenitic stainless steels. [15]
8. List out the property requirements for bio materials and explain their applications. [15]

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