Code No: 136FP **R16**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, November/December - 2020
METALLURGY FOR NON METALLURGISTS
(Common to CE, EEE)

Time: 2 hours **Max. Marks: 75**

Answer any five questions
All questions carry equal marks
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1. Explain edge and screw dislocations in crystals with the help of neat sketches. [15]
2. Classify various plain carbon Steels. Give the composition, properties and applications of each type. [15]
3. Construct Iron carbon system to scale and label different phases in it. Also, explain the phase changes. [15]
4. Determine the importance of tempering. Explain various types of tempering processes. [15]
5. Explain the properties and applications of malleable irons. [15]
6. Compare the microstructure and properties of ductile irons and compacted graphite irons. [15]
7. Explain the properties and applications of aluminium. [15]
8. Explain the procedure of Brinell's hardness testing. [15]

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