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200960

DIPLOMA

Press Tool and Die Maintenance and Stamping

Subject: Material Science and Heat Treatment

Subject Code: NDME-102

Semester: Second

September 2020

Theory (External): 35 Marks

Time: 03 hours

INSTRUCTIONS TO THE STUDENTS

1. Read the questions carefully and write the answers in the answer sheets.
2. Wherever necessary, the diagram drawn should be neat and properly labelled.
3. This questions paper comprises of 8 questions out of which student need to attempt any 4 questions.
4. All questions carry equal marks.
5. The time allotted will be 3 hours for examinations including time of downloading of question paper to emailing of answer books to the concerned Dean/IC.

ESSAY TYPE QUESTIONS

1. Distinguish brittle and ductile fracture with appropriate examples.
2. Distinguish cold, warm and hot working of metals.
3. Explain about recovery, recrystallization and grain growth in a metal.
4. Discuss various types of Cast Iron, and their usage.
5. Explain the behavior of mild steel under varying load conditions.
6. Discuss various types of annealing procedures.
7. State the general composition, properties of High speed steel.
8. Explain different applications of Ceramics in engineering field.

*****END OF PAPER*****