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200944

DIPLOMA

Press Tool and Die Maintenance and Stamping

Subject: Fundamentals of CNC Machines

Subject Code: NDME-105

Semester: First

September 2020

Theory (External): 70 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. What are the advantages and disadvantages of CNC machines over conventional machines? Also write the applications of CNC machines.
2. Explain how cutting tool can be classified on the basis of cutting tool material.
3. Discuss various types of automatic tool changer used in CNC.
4. Explain the basic principle of work holding device and also write the characteristics of work holding devices required in CNC machine?
5. Write short note on Automatic tool changer.
6. Discuss the swarf removal and feedback devices used in CNC machines.
7. Explain the working of Sine bar and snap gauges with a neat sketch.
8. Write the instruments through which linear measurement can be measured? Explain vernier height gauge with a neat sketch.

END OF PAPER