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200946

BACHELOR OF VOCATION

Automotive Mechatronics

Subject: Computer Numerical Control Machines (CNC)

Subject Code: ABME-206

Semester: Fourth

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 6 questions out of which student need to attempt any 3 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. Differentiate between Conventional and DNC machines with applications related to manufacturing industries.
2. Describe the Factors considered in selecting the tooling for CNC Machines with examples.
3. What is part programming? Explain the need and Basic concepts of part programming with suitable example.
4. Describe the Methods of writing a part program with suitable example.
5. What is Computer aided part programming. Describe the APT Programming sequence with suitable examples.
6. Discuss the properties of high carbon tools steels (HCS) and its application related to manufacturing industry.

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