

BACHELOR OF VOCATION
Tool and Die Manufacturing
Subject: Manufacturing Technology
Subject Code: CBME-104
Semester: Second
October 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. Draw a neat sketch showing the various angles in different views of single point cutting tool. Also differentiate between orthogonal cutting and oblique cutting.
2. Why there is a need of cutting fluid and write the essential properties of cutting fluids.
3. What do you mean by tool life? Explain the variables which affect the tool life.
4. Explain the principle and working of EDM with a neat sketch.
5. What do you mean by optimal cutting speed? Explain the factors which cause tool wear
6. Define pattern and explain the types of pattern with a neat sketch.
7. Explain the sequence of processes involved in powder metallurgy.
8. What do you mean by Extrusion? Explain any two extrusion processes with a neat diagram.

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