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**201021**

**BACHELOR OF VOCATION**  
**Automotive Manufacturing**  
**Subject: Workshop Technology – 1 (Machining)**  
**Subject Code: BBME112**  
**Semester: Second**  
**October 2020**  
**Theory (External): 35 Marks**  
**Time: 03 Hours**

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**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. Enumerate the differences between reamers and taps with suitable diagrams.
2. Explain with suitable diagrams:
  - a) Location devices and
  - b) Clamping devices.
3. Explain the construction and working of wire cut machine.
4. Write short note on following tools:
  - a) CNC machines
  - b) CNC programming codes
5. Write short note on following:
  - a) Properties of cutting tools
  - b) Types of steels
6. Write short notes on the role of following:
  - a) Coolants
  - b) Lubricants
7. Differentiate between cutting speed, feed and depth of cut.
8. Differentiate between single point and multi-point cutting tools with examples. Also, explain the functions of inserts.

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