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**PRESIDENCY
UNIVERSITY**

BENGALURU

School of Engineering

Mid - Term Examinations -November 2024

Semester: V

Date:06-11-2024

Course Code: MEC4005

Time: 09:30am – 11:00am

Course Name: PRODUCTION TECHNIQUES-II

Max Marks: 50

Program: B.TECH

Weightage: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5QX2M=10M

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|---|---------------------------------------------|---------|----|-----|
| 1 | Give example of multi point cutting tool | 2 Marks | L1 | C01 |
| 2 | What is positive rake angle? | 2 Marks | L1 | C01 |
| 3 | What is diffusion wear in metal cutting? | 2 Marks | L1 | C01 |
| 4 | What's the function of Carriage? | 2 Marks | L1 | C02 |
| 5 | What are the parts of turret lathe machine? | 2 Marks | L1 | C02 |

Part B

Answer ALL Questions. Each question carries 10 marks.

4QX10M=40M

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|---|----|----------------------------------------------------|---------|----|-----|
| 6 | 6a | What are the variables affecting the tool life | 5 Marks | L2 | C01 |
| | 6b | What are the characteristics of good cutting fluid | 5 Marks | L2 | C01 |

Or

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|---|---------------------------------------------------------------------------------|---------|----|-----|
| 7 | Explain the nomenclature of single point cutting tool with simple sketch | 10Marks | L2 | C01 |
| 8 | With simple sketch explain the types of chip formation in metal cutting process | 10Marks | L2 | C01 |

Or

- 9** **9a** Write a short note on any two types of cutting fluid used in metal cutting. **5 Marks** **L2** **C01**
- 9b** What are the properties of cutting fluids **5 Marks** **L2** **C01**
- 10** With simple sketch explain the different parts of lathe machine **10Marks** **L2** **C02**
- or**
- 11** Explain taper turning operations of form tool and swiveling of compound rest on lathe machine. **10Marks** **L2** **C02**
- 12** With simple sketch explain any 4 drilling operation carried out in drilling machine **10Marks** **L2** **C02**
- Or**
- 13** With simple sketch explain the parts of capstan lathe machine **10Marks** **L2** **C02**