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PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF ENGINEERING

Summer -Term

END TERM EXAMINATION - AUG 2024

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| **Semester :Summer term** | **Date :07/8/2024** |
| **Course Code :MEC4005** | **Time :9:30 AM TO 12:30 PM** |
| **Course Name :Production Techniques-II** | **Max Marks :100** |
| **Program :B.Tech** | **Weightage :50%** |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Question paper consists of 3 parts.*
3. *Scientific and non-programmable calculator are permitted.*
4. *Do not write any information on the question paper other than Roll Number.*

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| **PART A** | | | |
| **ANSWER ANY 5 QUESTIONS 5Q X 6M=30M** | | | |
| 1 | List out the material used for making single point cutting tool and types of chip formation in machining | (CO1) | [Knowledge] |
|  | | | |
| 2 | What are the advantages of cutting fluids | (CO1) | [Knowledge] |
|  | | | |
| 3 | What is work holding device? List out the devices used for holding work pieces | (CO2) | [Knowledge] |
|  | | | |
| 4 | What is counter sinking and counter boring in drilling operation? | (CO2) | [Knowledge] |
|  | | | |
| 5 | What are the limitations and application of shaper machine | (CO3) | [Knowledge] |
|  | | | |
| 6 | What is NC (Numerical Control) machine? Give the classification of NC machine | (CO4) | [Knowledge] |
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| 7 | What are the advantages and disadvantages of NC machine? | (CO4) | [Knowledge] |
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| **PART B** | | | |
| **ANSWER ANY 4 QUESTIONS 4Q X 10M=40M** | | | |
| 8 | Differentiate between orthogonal and oblique cutting in single point cutting tool | (CO1) | [Comprehension] |
|  | | | |
| 9 | Describe the specification of lathe machine with the simple diagram | (CO2) | [Comprehension] |
|  | | | |
| 10 | Explain any four drilling operation performed on the drilling machine. | (CO2) | [Comprehension] |
|  | | | |
| 11 | With simple sketch explain the working principle of shaper machine | (CO3) | [Comprehension] |
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| 12 | Explain the specification or marking of any grinding wheel indications specified with simple sketch. | (CO3) | [Comprehension] |
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| 13 | With neat sketch explain the major parts of the NC machine | (CO4) | [Comprehension] |
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| **PART C** | | | |
| **ANSWER ANY 2 QUESTIONS 2Q X 15M=30M** | | | |
| 14 | Explain any five operations performed on the lathe machine with simple sketch | (C02) | [Comprehension] |
|  | | | |
| 15 | Performance of the grinding wheel will deteriorate overtime due to several reasons. Explain the grinding wheel defects associated with the machine | (CO3) | [Comprehension] |
|  | | | |
| 16 | Describe the Abrasive water jet machining with the flow diagram and its application | (CO4) | [Comprehension] |
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