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PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF ENGINEERING

END TERM EXAMINATION - JUNE 2024

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| **Semester : II** | **Date : 12-08-2024** |
| **Course Code : MEC5002** | **Time : 9:30 am to 12:30 pm** |
| **Course Name : Industry 4.O** | **Max Marks :100** |
| **Program : M.Tech (MEC, CSE, ECE)** | **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 2M=10M** | | | |
| 1 | What do you mean by Manufacturing Process? | (CO 1) | [Knowledge] |
|  | | | |
| 2 | Based on the quantity of product, How the manufacturing activity can be classified? | (CO 1) | [Knowledge] |
|  | | | |  |
| 3 | Define Industry 4.O | (CO 1) | [Knowledge] |
|  | | | |
| 4 | What do you mean by Conceptual Framework? | (CO 2) | [Knowledge] |
|  | | | |
| 5 | Define Additive Manufacturing | (CO 3) | [Knowledge] |
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| 6 | List the areas which are impacting on People | (CO 4) | [Knowledge] |
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| 7 | List the areas which are impacting on Education 4.0 | (CO 4) | [Knowledge] |
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| **PART B** | | | |
| **ANSWER ANY 5 QUESTIONS 5Q X 8M=40M** | | | |
| 8 | Write a note on Industrial Revolution | (CO 1) | [Comprehension] |
|  | | | |
| 9 | How do you justify the Cyber Physical Systems (CPS) is an essential technology used in Industry 4.0 ? | (CO 1) | [Comprehension] |
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| 10 | How do you justify the 3D Printing is an essential technology used in Industry 4.0? | (CO 1) | [Comprehension] |
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| 11 | Explain the Conceptual Framework for Business 4.O | (CO 2) | [Comprehension] |
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| 12 | Explain with suitable examples the applications of Aerospace 4.O | (CO 3) | [Comprehension] |
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| 13 | Discuss the impact of Industry 4.O on People | (CO 4) | [Comprehension] |
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| 14 | Discuss the impact of Industry 4.O on Business | (CO 4) | [Comprehension] |
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| **PART C** | | | |
| **ANSWER ANY 5 QUESTIONS 5Q X 10M=50M** | | | |
| 15 | Discuss the Main Use Cases of Industry 4.0 | (CO 1) | [Comprehension] |
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| 16 | Explain how the Supply Chain 4.O. is beneficial | (CO 3) | [Comprehension] |
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| 17 | Explain the Conceptual Frame Work for Agriculture 4.O | (CO 2) | [Comprehension] |
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| 18 | Explain with suitable examples the applications of Healthcare 4.O | (CO 3) | [Comprehension] |
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| 19 | Discuss the Curriculum 4.O in detail | (CO 4) | [Comprehension] |
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| 20 | Explain with suitable examples Industry 4.0 impact on Government | (CO 4) | [Application] |
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| 21 | Discuss the Faculty 4.O in detail | (CO 4) | [Comprehension] |
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