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**PRESIDENCY UNIVERSITY**

**Bengaluru**

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| **Ph. D Course Work End Term Examinations – JAN-FEB 2025** |
| **Date:** 04 – 02- 2025 **Time:** 09:30 am – 12:30 pm |

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| **School:** SOE | **Program:** Ph. D | |
| **Course Code :** MEC824 | **Course Name :** Industry 4.O | |
| **Semester**: | **Max Marks**: 100 | **Weightage**: 50% |

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| --- | --- | --- | --- | --- | --- |
| **CO - Levels** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| **Marks** | **20** | **20** | **30** | **30** | **-** |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Do not write anything on the question paper other than roll number.*

**Part A**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Answer ALL the Questions. Each question carries 10 marks. 6Q x 10M=60Marks** | | | | |
| **1** | Define Industry 4.O and List the various Manufacturing benefits of Industry 4.O | **10 Marks** | **L1** | **CO1** |
| **2** | Discuss the India’s Roadmap for Industry 4.O | **10 Marks** | **L1** | **CO1** |
| **3** | Discuss the Drivers and Main Use Cases of Industry 4.0 | **10 Marks** | **L2** | **CO2** |
| **4** | Discuss with an example Conceptual Framework for Supply Chain 4.O | **10 Marks** | **L2** | **CO2** |
| **5** | Explain how the Supply Chain 4.O. is beneficial | **10 Marks** | **L2** | **CO3** |
| **6** | What are the 8 Levels of learning in curriculum design industry 4.0 | **10 Marks** | **L2** | **CO4** |

**Part B**

|  |  |  |  |  |
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| **Answer the Questions. Each question carries 20 marks 2Q x 20 = 40 Marks** | | | | |
| **7.** | Explain how 5’s Method of Lean Manufacturing will reduce the waste in an organization? | **20 Marks** | **L3** | **CO3** |
|  | | | | |
| **8.** | Explain with suitable examples Industry 4.0 impact on society, people, and business | **20 Marks** | **L3** | **CO4** |

**\*\*\*\*\* BEST WISHES \*\*\*\*\***