PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 10-10-2025   **Time:** 02.00pm to 03.30pm

School: SOC/SOD/SOIS/SOMS/SOE	**Program:** BBA/BCA/B.Com/B.Des
Course Code : MEC3257	**Course Name:** Industry 4.0
Semester: III/V/VII/IX	**Max Marks**: 50 **Weightage**: 25%

CO - Levels	CO1	CO2	CO3	CO4	CO5	CO6
Marks	26	24	-	-	-	-

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 2 marks.   **5Q x2M=10M**

1	Name any **two benefits of Industry 4.0** in manufacturing.	2 Marks	L1	CO1
2	List the difference between **dedicated production line** and **flexible manufacturing system** (FMS).	2 Marks	L1	CO1
3	What is the role of **Big Data Analytics** in Industry 4.0?	2 Marks	L1	CO1
4	What is meant by **Supply Chain 4.0**?	2 Marks	L1	CO2
5	What is the objective of **Education 4.0**?	2 Marks	L1	CO2

Part B

Answer the Questions.   **Total Marks 40M**

6.	a.	Explain the concept of Reconfigurable Manufacturing Systems (RMS) and how 3D printing supports mass personalization.	10 Marks	L2	CO1

	b.	Elaborate on the **technologies driving Industry 4.0**: Big Data, AI, and IoT.	**10 Marks**	**L2**	**CO1**
		Or			
7.	**a.**	Describe the **benefits of Industry 4.0** under customer and operational aspects.	**10 Marks**	**L2**	**CO1**
	b.	Explain how **India is preparing for Industry 4.0**?	**10 Marks**	**L2**	**CO1**

8.	**a.**	**Discuss the key features and advantages of Supply Chain 4.0.**	**10 Marks**	**L2**	**CO2**
	b.	What is **Agriculture 4.0**? Discuss how Industry 4.0 technologies are changing the agricultural sector.	**10 Marks**	**L2**	**CO2**
		Or			
9.	**a.**	Discuss the vision and framework of **Education 4.0**, focusing on skills required for the future.	**10 Marks**	**L2**	**CO2**
	b.	Compare and contrast **Healthcare 4.0 and Business 4.0** in terms of objectives and applications.	**10 Marks**	**L2**	**CO2**