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# PRESIDENCY UNIVERSITY

BENGALURU

## Mid - Term Examinations - MARCH 2026

Date: 12-03-2026

Time: 09:30am - 11.00am

School: SOIS-PG	Program: MCA		
Course Code : MEC3257	Course Name: Industry 4.0		
Semester: IV	Max Marks: 50	Weightage: 25%	

CO - Levels	C01	C02	C03	C04	C05	C06
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	Explain the term <b>Industry 4.0</b> .	2 Marks	L2	C01
2	List any <b>two technologies</b> that enable Industry 4.0.	2 Marks	L1	C01
3	What is meant by a <b>cyber-physical system</b> ?	2 Marks	L1	C01
4	Explain conceptual framework <b>in the context of Industry 4.0</b> .	2 Marks	L2	C02
5	Mention any <b>two innovations of Healthcare 4.0</b> .	2 Marks	L1	C02

### Part B

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

<b>6.</b>	<b>a.</b>	Explain the <b>evolution of production systems</b> leading up to Industry 4.0.	<b>10 Marks</b>	<b>L2</b>	<b>C01</b>
	<b>b.</b>	Discuss the <b>core ideas and main concepts</b> of Industry 4.0 with suitable examples.	<b>10 Marks</b>	<b>L2</b>	<b>C01</b>
<b>Or</b>					
<b>7.</b>	<b>a.</b>	Elaborate on the <b>technologies driving Industry 4.0:</b> Cybersecurity, Cloud, and AR.	<b>10 Marks</b>	<b>L2</b>	<b>C01</b>
	<b>b.</b>	Describe the <b>benefits of Industry 4.0</b> under manufacturing and quality aspects.	<b>10 Marks</b>	<b>L2</b>	<b>C01</b>

<b>8.</b>	<b>a.</b>	Explain the role of a <b>conceptual framework</b> in assessing and implementing Industry 4.0.	<b>10 Marks</b>	<b>L2</b>	<b>C02</b>
	<b>b.</b>	Explain the concept of <b>Healthcare 4.0</b> and describe how IoT and telemedicine are transforming healthcare services.	<b>10 Marks</b>	<b>L2</b>	<b>C02</b>
<b>Or</b>					
<b>9.</b>	<b>a.</b>	Elaborate on the idea of <b>Business 4.0</b> and how it brings new business models to life.	<b>10 Marks</b>	<b>L2</b>	<b>C02</b>
	<b>b.</b>	Describe the concept of <b>Service 4.0</b> and its importance in the Industry 4.0 eras.	<b>10 Marks</b>	<b>L2</b>	<b>C02</b>