

Roll No.



**PRESIDENCY  
UNIVERSITY**  
BENGALURU

**Department of Research & Development**  
**Mid - Term Examinations - SEPTEMBER 2024**

<b>Odd Semester:</b> Ph.D. Course Work	<b>Date:</b> 28 /09/2024
<b>Course Code:</b> MEC821	<b>Time:</b> 2:00pm – 3:30pm
<b>Course Name:</b> Industry 4.0	<b>Max Marks:</b> 50
<b>Department:</b> Mechanical Engineering	<b>Weightage:</b> 25%

**Instructions:**

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

**Part A**

<b>Answer ALL the Questions. Each question carries 5 marks.</b>		<b>4Qx5M=20M</b>
<b>1</b>	Define Industry 4.0 and List the various Manufacturing benefits of Industry 4.0	<b>5 Marks</b>
<b>2</b>	How do you justify the Artificial Intelligence (AI) is an essential technology used in Industry 4.0 ?	<b>5 Marks</b>
<b>3</b>	Explain the Conceptual Framework for Healthcare 4.0	<b>5 Marks</b>
<b>4</b>	Explain the Conceptual Framework for Education 4.0	<b>5 Marks</b>

**Part B**

<b>Answer ALL Questions. Each question carries 15 marks.</b>		<b>2QX15M=30M</b>
<b>5</b>	Discuss the India's Roadmap for Industry 4.0.	<b>15 Marks</b>
<b>6</b>	Discuss with an example Conceptual Framework for Supply Chain 4.0	<b>15 Marks</b>