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**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
END TERM EXAMINATION – AUGUST-2024**

Semester : II	Date : 12-08-2024
Course Code : MEC5002	Time : 9:30 am to 12:30 pm
Course Name : Industry 4.0	Max Marks :100
Program : M.Tech (MEC, CSE, ECE)	Weightage :50%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

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 4.0	(CO 1)	[Knowledge]
4	What do you mean by Conceptual Framework?	(CO 2)	[Knowledge]
5	Define Additive Manufacturing	(CO 3)	[Knowledge]
6	List the areas which are impacting on People	(CO 4)	[Knowledge]
7	List the areas which are impacting on Education 4.0	(CO 4)	[Knowledge]

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]
10	How do you justify the 3D Printing is an essential technology used in Industry 4.0?	(CO 1)	[Comprehension]

11	Explain the Conceptual Framework for Business 4.O	(CO 2)	[Comprehension]
12	Explain with suitable examples the applications of Aerospace 4.O	(CO 3)	[Comprehension]
13	Discuss the impact of Industry 4.O on People	(CO 4)	[Comprehension]
14	Discuss the impact of Industry 4.O on Business	(CO 4)	[Comprehension]

PART C

ANSWER ANY 5 QUESTIONS

5Q X 10M=50M

15	Discuss the Main Use Cases of Industry 4.0	(CO 1)	[Comprehension]
16	Explain how the Supply Chain 4.O. is beneficial	(CO 3)	[Comprehension]
17	Explain the Conceptual Frame Work for Agriculture 4.O	(CO 2)	[Comprehension]
18	Explain with suitable examples the applications of Healthcare 4.O	(CO 3)	[Comprehension]
19	Discuss the Curriculum 4.O in detail	(CO 4)	[Comprehension]
20	Explain with suitable examples Industry 4.0 impact on Government	(CO 4)	[Application]
21	Discuss the Faculty 4.O in detail	(CO 4)	[Comprehension]