

11 MAR 2024

MGM University
Jawaharlal Nehru Engineering College

EXAM: CA-1 (2023-24) Part-II

Class: TY (ECE)
Subject: Power Electronics (PE)

Max Marks: 10
Duration: 45 Minutes

N.B.:- Solve any Two Questions.

Q.No.	Question	Marks	CO	BL
1	Draw and describe Flyback SMPS.	05	1	1
2	Describe the rotating type UPS system.	05	1	1
3	Draw and explain the Battery Charger.	05	1	1
4	Describe the considerations in Battery selection.	05	1	1

***** There is no short cut for hard work ***** 11 MAR 2024 / TY / ECE / CA-I / II / 23-24 / (CEE)

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EXAM: CA-1 (2023-24) Part-II

Class: TY (ECE)

Subject: Industrial Automation (IA)

Max Marks: 10

Subject Code: 21UEE605E


Duration: 30 Minutes

B.:- Solve any Two Questions.

No.	Question	Marks	CO	BL
	What is necessity of Industrial Automation.	05	1	1
	Explain the necessity of sequential control by to Develop Automation.	05	1	1
	What are Benefits and Impact of Automation on Manufacturing.	05	1	1
	What is role of sensors and controllers in achieving Automation.	05	2	1

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FORM NO.	F / TEAH / 06
REV. NO.	00
ISSUE DATE	15-09-2017


	MGM University Electrical and Computer Engineering
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Class: Third Year ECE Class Test: CAz Date: 3/2/2023 Total Marks: 10
Subject: Artificial Intelligence

Sr. Q1	Solve any two of the following Questions (5 Mark each)	CO	Level
1.	What do you mean by AI? Explain contribution of AI in various fields.	CO4	2
2.	Explain the concept of sensing, thinking, and acting in AI.	CO3	2
3.	What are Rational Agents? Explain the Goals of AI.	CO4	3

-----End-----

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Class: Third Year ECE Class Test: CAz Date: 3/2/2023 Total Marks: 10
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Sr. Q1	Solve any two of the following Questions (5 Mark each)	CO	Level
4.	What do you mean by AI? Explain contribution of AI in various fields.	CO4	2
5.	Explain the concept of sensing, thinking, and acting in AI.	CO3	2
6.	What are Rational Agents? Explain the Goals of AI.	CO4	3

-----End-----

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MGM's				
Jawaharlal Nehru Engineering College				
<i>CA-I Examination</i>				
Course: T.Y.B. Tech Electrical Engineering			Sem: VI	
Subject: Digital Image Processing			Subject Code: 20UEE608E Marks:10 Duration:-30 min	
Note: Solve any two.				
Q.No	Questions	CO	BL	Marks
1	How digital image is stored? Define and explain. Intensity, contrast, hue.	C01	L2	5
2	Explain with neat diagram image acquisition process using digital camera.	CO1	L2	5
3	Define sampling and quantization and compare its effect on digital image.	C01	L2	5
4	Discuss applications of digital image processing with examples.	CO1	L2	5

MGM's				
Jawaharlal Nehru Engineering College				
<i>CA-I Examination</i>				
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Note: Solve any two.				
Q.No	Questions	CO	BL	Marks
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4	Discuss applications of digital image processing with examples.	CO1	L2	5

MGM UNIVERSITY
JAWAHARLAL NEHRU ENGINEERING COLLEGE
DEPARTMENT OF ELECTRICAL ENGINEERING

TY EE

SUBJECT: Digital Signal Processing

CA1 (2023-24 PART 2)

TIME: 30 MINUTES

MAX MARKS: 10

SOLVE ANY TWO.

- a. Compare DSP with ASP.
- b. Illustrate the working of DSP with block diagram.
- c. Illustrate the applications of DSP.
- d. Explain the working of ADC block in detail.
- e. Explain Multi channel and Multi-Dimensional signal and continuous time and discrete time signal.

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JAWAHARLAL NEHRU ENGINEERING COLLEGE
DEPARTMENT OF ELECTRICAL ENGINEERING

TY EE

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TIME: 30 MINUTES

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TY EE

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CA1 (2023-24 PART 2)

TIME: 30 MINUTES

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