MGM University
Jawaharlal Nehru Engineering College

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

Class: SY (ECE)
Subject: Electrical machine (EM)

Max Marks: 10
Duration: 30 Minutes

N.B.:- Solve any Two Questions.

Q.No.	Question	Marks	CO	BL
1	Explain in detail B-H Curve of magnetic & non-magnetic material	05	1	1
2	Derive an expression of energy stored in magnetic circuit	05	1	1
3	Derive torque equation of DC motor? What is starting torque of series, shunt & compound motor	05	1	1
4	Discuss various speed control method for DC series & DC shunt motor	05	1	1

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11 MAR 2024/SY/ECE/CA-I/II/23-24/EE

Mahatma Gandhi Mission's
Jawaharlal NehruEngineering College, Aurangabad.
CA-I (2023-24) Part-II

Class: SY (ECE)

Subject: Data structure   Code Course:(21UEE404D)

N.B.:- Solve any two questions.

Max Marks:10

Duration: 30 Minutes

Sr.No.	Question	Marks	CO	BL
1	What is Data Structure? Explain types of data structure.	05	1	1
2	Write a program to print the sum of average of five elements of an array?	05	1	2
3	What is an Array? What are its various types?	05	1	1
4	Explain the dynamic memory allocation function.	05	1	2

--Best Luck--

1 1 MAR 2024/SY/ECE/CA-I/II/ 23-24/EE

MGM University, Jawaharlal Nehru Engineering College, Chhatrapati Sambhajinagar
CA-1 Examination

Class: SY-B. Tech (All)   Sem: IV
Course Code: 20UCC401B   Max.Marks:10
Course Name: Engineering Statistics   Date:02.02.2024   Time:10.00 -10.45

Read the instructions carefully.
1. Use of nonprogrammable calculator is allowed.
2. Digits on right hand side indicate the marks.

Q.1 Solve any **Two** questions.

A) A car travels 25 miles at 25 miles per hour (mi/h), 25 miles at 50 mph, and 25 miles at 75   (5M)
mph. Find the arithmetic mean of the three velocities and the harmonic mean of the three
velocities. Which is correct?

B) The points given to the students belonging to two management institutes on the overall   (5M)
performance in a year are as follows:

Institute A	60	64	75	82	48	66	81	92	44	80
Institute B	70	65	54	72	80	68	79	77	71	74

The performance of which management institute is more consistent (Use coefficient of
variation)? Which management institute has higher level of performance?

C) The first four moments of a distribution about the value 5 of the variable are 2, 20, 40   (5M)
and 50. Show that the mean is 7. Also find the other moments, $\beta 1$ and $\beta 2$.

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MGM University, Aurangabad

CA-1 Examination – Feb 2024

Course: B. Tech in Electrical and computer Engineering   Sem: IV

Subject Name: EPS-I   Subject Code: 21UEE402D

Max Marks: 10   Date:-02/02/2024

Duration: - 30 Minutes.

Instructions to the Students:
1. All Questions are compulsory
2. Illustrate your answer with neat sketches, Diagram etc., wherever necessary
3. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.

		CO	BL	Marks
Q. 1	Solve Any Two of the following			2X 5=10
	1. Write a short note on a) Coal Handling plant b) Pulverizing Plant c) Draft System	CO1	1	5
	2. Write down types of excitation system and explain any one in detail	CO2	2	5
	3. Draw and explain schematic arrangement of Hydroelectric power plant	CO1	1	5

11 MAR 2024 /SY/ECE/CA-I/II/23-24/r.E

Mahatma Gandhi Mission University
Jawaharlal Nehru Engineering College, Aurangabad.
Class: SY (Elecrical & Comp.) CA-I (2023-24) Part-II 3.02.2024
Subject: Object Oriented Programming with JAVA - 21UEE405D
Max Marks: 10 Duration: 30 Min.

N.B.:- Solve any two questions.

Sr. No.	Question	Marks	CO
1	Define OOP and explain its basic elements	05	CO1
2	Define Class and explain its syntax with one example.	05	CO1
3	Explain types of relationship between classes	05	CO1
4	What is Meta class and explain its characteristics.	05	CO1

1 1 MAR 2024/SY/ECE/CA-I/II/23-24/EE