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, $\beta1$ and $\beta2$.

1 1 MAR 2024 SY/AIDS/CA-I/II/23-24(ECT)

MGM University Aurangabad
Center MGM JNEC

Program Name: - SY-AIDS   Course: Data Analysis   Class: SY
Duration: 45m   Max Marks: 10   Date: - 02/02/2024

Q	Solve any two Questions	CO	BL	Mark
1	Define Random Variable. Give example of Discrete and Continuous Random Variable	1	2	1 X 5
2	What are the two types of Estimation Methods? Mention the properties of good Estimators	1	2	1 X 5
3	Explain Null and Alternate Hypothesis with example	1	1	1 X 5
4	Two cards are drawn successively with replacement from a well shuffled pack of 52 cads. Find the probability distribution of number of Queens.	1	1	1 X 5

11 MAR 2024   SY/AIDS/CA-I/II/23-24(CECT)

MGM UNIVERSITY
J.N.E.C. AURANGABAD
DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
S.Y(AI&DS & ECE)
Year: 2023-24 (Semester -III)

Course Code: 22UET403D, 21UET403D   Microprocessors and Microcontrollers

TEST: CA I   Max Marks: 10   Time: 45 Minutes   Date: 02.02.2024

N.B.

(I)Solve any two questions.

(II)Each question carries equal marks.

(III)Assume suitable additional data if necessary.

Q.No.	Questions	Level	CO
1	Compare Harvard and Von Neuman architecture.	L1	1
2	How you will demultiplex the multiplexed address- data bus AD0 –AD7 in 8085 microprocessor?	L1	1
3	What is 8085 programming model? Explain in detail.	L1	1
4	What are different addressing modes available in 8085? Explain with the help of instructions under each mode.	L1	1

MGM University Aurangabad
Center MGM JNEC

Program Name: - SY-AIDS
Duration: 45m

Course: **PTRP**
Max Marks: 10

Class: SY
Date: - 03/02/2024

Q	Solve any two Questions	CO	BL	Mark
1	Define Mutually Exclusive events with example	1	2	1 X 5
2	Enlist any 5 elementary properties of Probability	1	2	1 X 5
3	Define i)Elementary event ii) Certain event iii) Impossible event	1	1	1 X 5
4	There are two bags. First bag contains 5 red, 6 white balls and the second bag contains 3 red, 4 white balls. One bag is selected at random and a ball is drawn from it. What is the probability that it is (i) red, (ii) white.	1	1	1 X 5

1 1 MAR 2024   SY/AIDS/CA-I/II/23-24(ECT)

MGM UNIVERSITY
J.N.E.C. AURANGABAD
Department of Electronics &Telecommunication
S.Y.- B.TECH. ECE/AIDS
Year: 2023-24 (Semester -IV) Part II

Course : Object oriented Programming.
Max Marks: 10   Time: 45 Minutes

TEST: CA I
Date:03 /02/24

N.B.
(I)Solve any two questions.
(II)Each question carries equal marks.
(III)Assume suitable additional data if necessary.

Q.NO	Questions	Level	CO
1	Write a program in C++ to display Hello word and explain significance of each statement	L1	1
2	Explain need of object oriented programming	L1	1
3	Write a program in c to add two integer numbers, input data from user	L1	1
4	Write any five keywords used in c++ and explain it	L2	1

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