MGM University, Jawaharlal Nehru Engineering College, Chhatrapati Sambhajinagar **CA-2 Examination**

Class: SY-B. Tech (All)

Sem: IV

Course Code: 20UCC401B

Max.Marks:10

Course Name: Engineering Statistics Date:03.04.2024 Time: 10.00 -11.00

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

The ranks of the same 15 students in two subjects A and B are given below; the two numbers within the A) brackets denoting the rank of same student A and B respectively. (1, 10), (2, 7), (3, 2), (4, 6), (5, 4), (6, 8), (7, 3), (8, 1), (9, 11), (10, 15), (11, 9), (12, 5), (13, 14), (14, 12), (14, 12), (14, 12), (14, 12), (15, 14), (16, 15), (17, 16), (17, 16), (18, 16), (18, 16), (19, 11), (1

(5M)

(15, 13). Use Spearman's formula to find the rank correlation coefficient.

Fit a straight line of the form y = mx + c to the given data, by using method of least squares. B)

(5M)

(5M)

(5M)

(5M

X	0	1	2	3	4	5	6	7
у	-5	-3	-1	1	3	5	7	9

A departmental store gives in-service training to its salesman which is followed by a test. It is considering whether it should terminate the service of any salesman who does not do well in the test. The following data gives the best scores and sales made by nine salesmen during a certain period:

22 15 20 19 26 19 24 21 14 Test scores 39 48 37 50 45 33 41 31 36 Sales ('000 Rs.)

Calculate the coefficient of correlation between test scores and the sales. Does it indicate that the termination of services of low test scores is justified? If the firm wants a minimum sales volume of Rs. 30000, what is the minimum test score that will ensure continuation of service? Also estimate the most probable sales volume of a salesman making a score of 28.

END

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MGM University Aurangabad

Center MGM JNEC

Course: Data Analysis

Duration: 45m

Program Name: - SY-AIDS

Max Marks: 10

Class: SY

Date: - 03/04/2024

	Solve any two Questions	CO	BL	Mark
1		4	2	1 X 5
	a) Ctrl + N b) Ctrl + O c) Ctrl + S d) Ctrl + W			
	B] What is 'Data Validation' used for in Excel?			
	a) To correct wrong data b) To validate formulas			
	c) To control the type of data or the values that users enter into a cell			
	d) To validate a user's identity			
	C] What does 'Concatenate' mean in Excel?			
	a) To separate text in a cell b) To add numbers in different cells			
	c) To join two or more text strings into one string d) To divide a cell into multiple			
	cells			
	D] How can you split the text in a cell into multiple columns?			
	a) Using the 'Text to Columns' feature b) Using the 'Split Cells' feature			
	c) Using the 'Divide Text' function d) Using the 'Break Text' command			
	El How do you display current date only in MS Excel?			
	a) =Date () b) = Today () c) = Now () d) =Time ()	4	2	1 X 5
2	A] In the formula, which symbol specifies the fixed columns or rows?	4	2	1 X 3
	a). \$ B. * C. % D.;			
	B] You can check the conditions against when applying			
	conditional formatting			
	a) Cell value b) Formula c) Both of above d) None of above			
	w/ Con 1980			
	C] Which of the following is not true regarding Conditional Formatting?			
	a) You can add more than one condition to check			
	b) You can set condition to look for Bold and apply Italics on them			
	c) You can apply a Font border and pattern format that meets the specified			
	conditions			
	d) You can delete any condition from Conditional Formatting dialog box if it is not			
	required			
	D] What is the purpose of the IF function in Excel?			Į.
	a)To perform mathematical calculations b)To create conditional statements	1		
	c)To generate random numbers d)To format cell			
	2/12 0-112			
	E] What is an Excel feature that displays only the data in column (s) according to			
	specified criteria?			
	a)Filtering b)Sorting c) Formula d)Pivot			
		4	3	1 X 5
3	A] tables allow filtering through different values.	4	3	17.3
	a)Data b)Pivot c)Both of them d) None of them		10	
	B] Pivot tables that have been created can easily be turned into graphs or charts			
	The second secon			
	by simply highlighting the whole pivot table and choosing a graph or chart that	1		
	you want to create. Is this true?			
	you want to create. Is this true? a)True b) False, pivot tables do not contain enough information for graphs or			
	you want to create. Is this true?			
	you want to create. Is this true? a)True b) False, pivot tables do not contain enough information for graphs or charts c) False, only regular tables may be used to create graphs or charts d) False			
	you want to create. Is this true? a)True b) False, pivot tables do not contain enough information for graphs or charts c) False, only regular tables may be used to create graphs or charts			

D] ____ is the correct syntax of IF () Function.

- 1. =IF (logical_test, TRUE([value_if_true]), FALSE([value_if_false]))
- 2. =IF (logical_test, [value_if_true], [value_if_false])
- 3. =IF (logical_test, {[value_if_true]}, {[value_if_false]})
- =IF (logical_test: [value_if_true], [value_if_false])

E] _____ happens when you select a cell in MS Excel and type "=B25"

- 1. The selected cell will show an error message
- 2. Selected cells will show "=B24"
- 3. Selected cells will show the same value as in B25
- 4. Selected cells will be blank

2.

MGM UNIVERSITY J.N.E.C. AURANGABAD DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION S.Y. - (AI&DS, ECE)

Year: 2023-24 (Semester -IV)

Course Code: 22UET403D, 21UET402D

Microprocessors and Microcontrollers

TEST: CA 2

Max Marks: 10

Time: 45 Minutes

Date: 03.04.2024

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	Draw and explain internal RAM organization of 8051 Microcontroller.	L2	4
2	Compare Microcontrollers and Microprocessors on various parameters.	L2	4
3	Enlist the salient features of 8051 Microcontroller.	L2	1
4	What are different addressing modes available in 8051? Explain with the help of instructions.	L2	4

MGM UNIVERSITY J.N.E.C. AURANGABAD DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION S.Y. (AI&DS, ECE)

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Microprocessors and Microcontrollers

TEST: CA 2

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MGM University Aurangabad

Center MGM JNEC

Program Name: - SY-AIDS

Duration: 45m

Course: PTRP

Max Marks: 10

Class: SY

Date: - 04/04/2024

Q	Solv	e any	two	Que	stion	IS				CO	BL	Mark
1	Expla Diagr		ple Po	sitive,	Negat	ive and No	correlation w	ith the help o	f Scatter	4	2	1 X 5
2			e betw	een Co	rrelati	on And C	ausation			4	2	1 X 5
Calculate 1.Regression coefficient of x on y 2. Regression coefficient of y on x x 5 4 3 2 1						4	2	1 X 5				
	У	9	8	10	11	12		11 11 11 11 11 11 11 11 11 11 11 11 11				
4	Calculate the Karl Pearson's Coefficient of Covariance							4	2	1 X 5		
	Stud	dents	1		2	3	4	5				
	Mat	th	5		7	9	3	6				
		ence	6		6	8	1	5				

MGM University Aurangabad Center MGM JNEC

Program Name: - SY-AIDS

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Max Marks: 10

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Q	Solve	Solve any two Questions							He control of the con	СО	BL	Mark	
1	Explai Diagra		ple Po	sitive, l	Negat	ive an	d No co	orrelation wi	ith the help	of Scatter	4	2	1 X 5
2			e betwe	een Co	rrelati	on Ar	d Caus	ation			4	2	1 X 5
3	51027 S						4	2	1 X 5				
	y	9	8	10	11	12		15					
4	Calcu	Calculate the Karl Pearson's Coefficient of Covariance									4	2	1 X 5
10	Stud	ents 1 2 3 4 5		1 3									
	Math	1	5		7		9	3	6		4		
							8				1		

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

TEST: CA II Time: 45 Minutes

N.B.

(1)Solve any two questions.

(II)Each question carries equal marks.

(III)Assume suitable additional data if necessary.

O.NO	Questions	Level	CO
1	What is nested class? Write a program to demonstrate inner and outer class.	L	4
2	Explain method overloading and constructor overloading with example.	1.1	4
3	Write a program using multilevel inheritance to display university model.	L2	4
4	What is use of static keyword?	LI	4

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

TEST: CA II Time: 45 Minutes

N.B.

(I)Solve any two questions.

(II)Each question carries equal marks.

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0.NO	Questions	Level	CO
1	What is nested class? Write a program to demonstrate inner and outer class.	LI	4
· ?	Explain method overloading and constructor overloading with example.	LI	4
3	Write a program using multilevel inheritance to display un versity model.	L2	4
4	What is use of static keyword?	LI	4

MGM UNIVERSITY J.N.E.C. AURANGABAD

Department of Electronics & Telecommunication S.Y. - B.TECH. ECE/AIDS

Year: 2023-24 (Semester -IV) Pert II

Course: Object oriented Programming.

Max Marks: 10

TEST: CAIL Time: 45 Minutes

N.B.

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3	Write a program using multilevel inheritance to display un versity model.	L2	4 .
4	What is use of static keyword?	LI	4