

Record No.: ACAD/R/20

Revision: 01

Date: 12\10\2014

Unit Test Examination

First Year B.Tech. (Group-G1)
Procedural Programming (UBTFY114)
ODD Semester (2024-25)

Total No. of Questions-02

Total No. of Printed Pages-1/1

[Time: 0 Hr. 45 min.]

[Max. Marks: 20]

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Instructions:

IMP: Verify that you have received a question paper with correct course, code, branch etc.

i. All questions are compulsory.

il. Assume suitable data wherever necessary,

iii. Neat labeled diagrams must be drawn wherever necessary.

iv. Figure to right indicates full marks.

v. Use of a non-programmable calculator is allowed.

		Marks	CLO No.
Q.1	Attempt two of the following.	10	
A	Define an array. Explain in detail to declare, initialize a two- Dimensional array with a simple example C program.	6	CLO3
B	Write a program to sum all the elements of 1-D array. Accept the input from the user, Explain the logic in detail.	5	CLO3
0	List four string handling functions. Explain any two string handling functions in detail with an example C program.	5	CLO3
Q.2	Attempt two of the following.	10	
A	Discuss actual parameters and formal parameters with proper example.	5	CLO4
11	Explain the following terms of function in C with syntax: a. Function call b. Function Declaration.	5	CLO4
0	Write a C code to find sum of two numbers using any one category of user defined function. Explain the working of code.	5	CLO4



Record No.: ACAD/R/20

Revision: 00

Date: 11/11/2024

Unit Test Examination

First Year B.Tech. (Group-G2) Procedural Programming (UBTFY114) ODD Semester (2024-25)

Total No. of Questions-02

Total No. of Printed Pages-1/1

[Time: 0 Hr. 45 min.]

[Max. Marks: 20]

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Instructions:

IMP: Verify that you have received a question paper with correct course, code, branch

- i. All questions are compulsory.
- ii. Assume suitable data wherever necessary.
- iii. Neat labeled diagrams must be drawn wherever necessary.
- iv. Figure to right indicates full marks.
- v. Use of a non-programmable calculator is allowed.

		Marks	CLO No.
Q.I	Attempt two of the following.	10	
A	Define an array. Explain in detail to declare, initialize a one- Dimensional array with a simple example C program.	5	CLO3
В	Write a C code to accept input from the user and print the elements of 2-D array in matrix form. Explain the logic in detail.	5	CLO3
C	Explain the following with an example c code: a, strlen() b, strcmp()	5	CLO3
Q.2	Attempt two of the following.	10	
A	Explain in detail function definition in detail with necessary sample C code.	5	CLO4
В	Write a C code to find an average of three numbers using any one category of user defined function, Explain the working of code.	5	CLO4
C	Enlist all user defined function categories and explain any one category in detail.	5	CLO4



Record No.: ACAD/R/2024-25

Revision: 00

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Unit Test-2 Examination

First Year B, Tech. (All Branches)
Linear Algebra and Differential Calculus (UBTFY101)
ODD Semester (2024-25)

Total No. of Questions- 02

Total No. of Printed Pages- 02

[Time: 0 Hr. 45 min.]

[Max. Marks: 20]

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Instructions:

IMP: Verify that you have received a question paper with correct course, code, branch etc.

i. All questions are compulsory.

ii. Assume suitable data wherever necessary.

iii. Neat labeled diagrams must be drawn wherever necessary.

iv. Figure to right indicates full marks.

v. Use of a non-programmable calculator is allowed.

	922-421	Marks	CLO No.
Q.1	Attempt any two of the following.	[10]	-
A.	Use Taylor's theorem to express the function $f(x) = 3x^3 - 2x^2 + x - 4$ in ascending powers of $(x + 2)$.	[5]	CLO-3
В.	Evaluate: $\lim_{x\to 0} \frac{\log(\sin 2x)}{\log(\sin x)}$	[5]	CLO-3
5/	Verify Rolle's Theorem for the function $f(x)=(x+1)^3(x-2)^3$ in [-1, 2]. Hence find c in (-1, 2).	[5]	CLO-3
0.2	Attanual any true of the following		
Q.2	Attempt any two of the following.	[10]	100
A.	If $u = tan^{-1} \left(\frac{y}{x}\right)$, then verify $u_{xy} = u_{yx}$.	[5]	CLO-4

В.	Let $u = f(3x - 2y, 2y - 4z, 4z - 3x)$, then evaluate $\frac{1}{3}u_x + \frac{1}{2}u_y + \frac{1}{4}u_z$.	[5]	CLO-4
C.	If $u = cos^{-1} \left(\frac{x+y}{\sqrt{x+y}} \right)$, then find the value of $x^2 u_{xx} + 2xy u_{xy} + y^2 u_{yy}$.	[5]	CLO-4



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Revision: 00

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Unit Test Examination-2

First Year B. Tech. (ALL) Engineering Chemistry (UBTFY104) ODD Semester (2024-25)

Total No. of Questions-02

Total No. of Printed Pages-02

[Time: 0 Hr. 45 min.]

[Max. Marks: 20]

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Instructions:

IMP: Verify that you have received a question paper with correct course, code, branch

- i. All questions are compulsory.
- ii. Assume suitable data wherever necessary.
- iii. Neat labelled diagrams must be drawn wherever necessary.
- iv. Figure to right indicates full marks.
- v. Use of a non-programmable calculator is allowed.

		Marks	CLO No.
Q.1	Attempt two of the following.	10	
A	Define the following: (1 mark each) (i) Fibre reinforced polymer (ii) Addition polymerisation (iii) One dimension nanomaterials (iv) Thermosetting polymers (v) Transesterification	5	3
В	Write any five differences between crystalline melting temperature and glass transition temperature	5	3

	of bioethanol from lignocellulosic	5	3
c	Explain the challenges in the production of bioethanol from lignocellulosic biomasses using proper labelled diagram.	10	
Q.2	Attempt two of the following.	5	4
٨	What is corrosion? Explain the hydrogen evolution mechanism of corrosion.	5	4
В	Describe the factors that influence the rate of corrosion.	5	4
c	Write a short note on atmospheric corrosion with proper labelled diagram and mechanism.	,	