Internal Test

Session	: 2023-24 (Even Sem.)	Semester	: II
Course	: BCA/ B.Sc.(IT)	Subject Code	: UCS2003
Branch	:	Subject Name	: Structured Programming using C
Group	: ALL	Name of Faculty Member	: Er. Atul Verma/Er. Sweta Singh/Er. Raghuveer Sachan/Er. Shamim Ahamad/Er.Ankit K.Singh / Dr.Nitya Nand Tiwari / Er. Nirbhay Tiwari

| Date | 13/02/2024 | Duration | 45 min. | Max. Marks | 30 | SET No. | I |

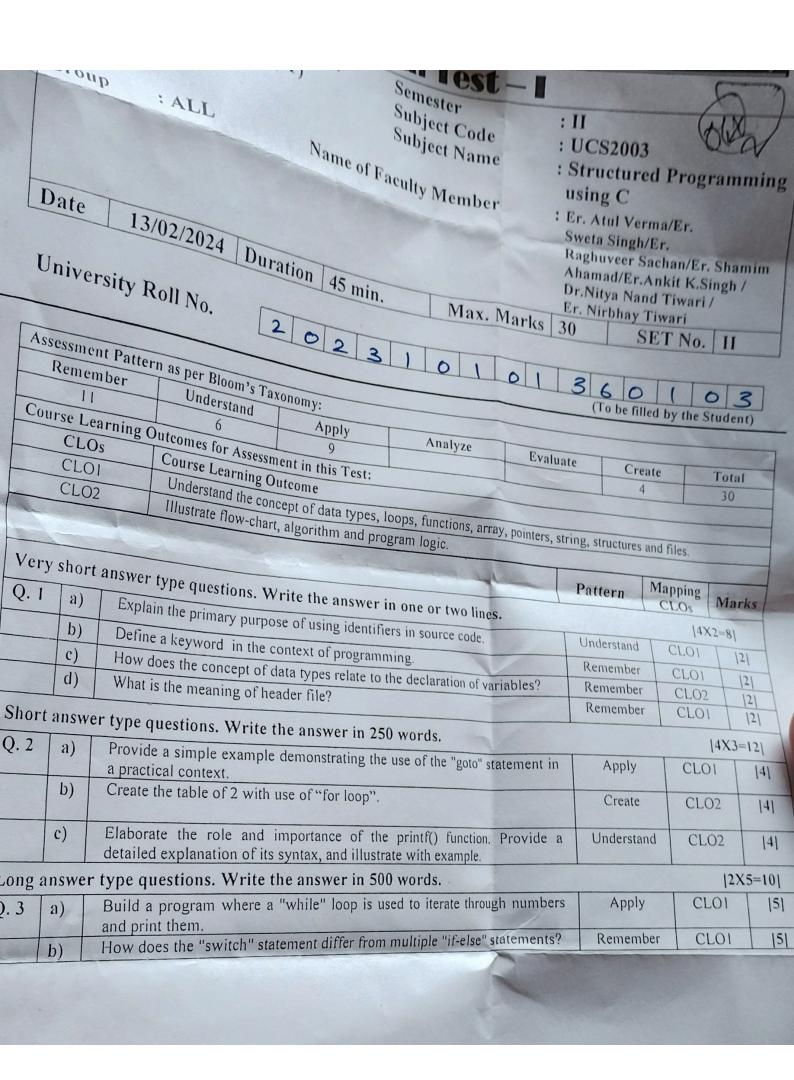University Roll No. | 2 | 0 | 2 | 3 | 1 | 0 | 1 | 0 | 1 | 3 | 6 | 0 | 0 | 6 | 6 |

(To be filled by the Student)

Assessment Pattern as per Bloom's Taxonomy:

Remember	Understand	Apply	Analyze	Evaluate	Create	Total
8	17	5				30

Course Learning Outcomes for Assessment in this Test:

CLOs	Course Learning Outcome
CLO1	Understand the concept of data types, loops, functions, array, pointers, string, structures and files.
CLO2	Illustrate flow-chart, algorithm and program logic.

			Pattern	Mapping CLOs	Marks
Very short answer type questions. Write the answer in one or two lines.					[4X2=8]
Q. 1	a)	What is identifier?	Remember	CLO1	[2]
	b)	What is variable?	Remember	CLO2	[2]
	c)	What are Data-Types in C?	Remember	CLO1	[2]
	d)	How to write comments in C?	Remember	CLO1	[2]
Short answer type questions. Write the answer in 250 words.					[3X4=12]
Q. 2	a)	Describe and provide examples of two different built-in functions in C	Understand	CLO1	[4]
	b)	Compare and contrast the getch() and getchar() functions in C programming. Explain their purposes.	Understand	CLO1	[4]
	c)	Explain the significance of the "if-else" statement in programming. Discuss its syntax, and provide examples to illustrate how it is used to control the flow of a program.	Understand	CLO2	[4]
Long answer type questions. Write the answer in 500 words.					[2X5=10]
Q. 3	a)	Explain the syntax of the "switch" statement and provide a detailed example demonstrating its use.	Understand	CLO1	[5]
	b)	Build a program of an infinite loop using a "while" loop and explain how to break out of it.	Apply	CLO2	[5]

Group : ALL

Semester : II
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Date	13/02/2024	Duration	45 min.

University Roll No.

2	0	2	3	1	0	1	0	1	3	6	0	1	0	3

Max. Marks 30

SET No. II

(To be filled by the Student)

Assessment Pattern as per Bloom's Taxonomy:

Remember	Understand	Apply	Analyze	Evaluate	Create	Total
11	6	9			4	30

Course Learning Outcomes for Assessment in this Test:

CLOs	Course Learning Outcome
CLO1	Understand the concept of data types, loops, functions, array, pointers, string, structures and files.
CLO2	Illustrate flow-chart, algorithm and program logic.

Very short answer type questions. Write the answer in one or two lines.

Q. 1			Pattern	Mapping CLOs	Marks
					|4X2=8|
	a)	Explain the primary purpose of using identifiers in source code.	Understand	CLO1	|2|
	b)	Define a keyword in the context of programming.	Remember	CLO1	|2|
	c)	How does the concept of data types relate to the declaration of variables?	Remember	CLO2	|2|
	d)	What is the meaning of header file?	Remember	CLO1	|2|

Short answer type questions. Write the answer in 250 words.

Q. 2					|4X3=12|
	a)	Provide a simple example demonstrating the use of the "goto" statement in a practical context.	Apply	CLO1	|4|
	b)	Create the table of 2 with use of "for loop".	Create	CLO2	|4|
	c)	Elaborate the role and importance of the printf() function. Provide a detailed explanation of its syntax, and illustrate with example.	Understand	CLO2	|4|

Long answer type questions. Write the answer in 500 words.

Q. 3					|2X5=10|
	a)	Build a program where a "while" loop is used to iterate through numbers and print them.	Apply	CLO1	|5|
	b)	How does the "switch" statement differ from multiple "if-else" statements?	Remember	CLO1	|5|

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		Max. Marks 30	SET No. III
Date	13/02/2024	Duration 45 min.	

University Roll No.: 2 0 2 3 1 0 1 6 1 3 6 0 0 7 3 (To be filled by the Student)

Assessment Pattern as per Bloom's Taxonomy:

Remember	Understand	Apply	Analyze	Evaluate	Create	Total
13	4	9			4	30

Course Learning Outcomes for Assessment in this Test:

CLOs	Course Learning Outcome
CLO1	Understand the concept of data types, loops, functions, array, pointers, string, structures and files.
CLO2	Illustrate flow-chart, algorithm and program logic.

			Pattern	Mapping CLOs	Marks
Very short answer type questions. Write the answer in one or two lines.					**[4X2=8]**
Q. 1	a)	What is the main role or significance of using identifiers in the context of source code?	Remember	CLO1	[2]
	b)	How would you describe the term 'keyword' within the realm of programming?	Remember	CLO1	[2]
	c)	In what manner is the concept of data types connected to the process of declaring variables in programming?	Remember	CLO2	[2]
	d)	Could you explain the significance or purpose of a header file in the context of programming?	Remember	CLO1	[2]
Short answer type questions. Write the answer in 250 words.					**[4X3=12]**
Q. 2	a)	Illustrate the application of the 'goto' statement with an example.	Apply	CLO1	[4]
	b)	Create the table of 3 with use of "do while".	Create	CLO2	[4]
	c)	Examine the significance of the printf() function in programming. Offer a comprehensive breakdown of its syntax, and support your explanation with example.	Understand	CLO2	[4]
Long answer type questions. Write the answer in 500 words.					**[2X5=10]**
Q. 3	a)	Build a programe where a "for loop" is used to iterate through numbers and print them.	Apply	CLO3	[5]
	b)	How does the "switch" statement perform? Explain with example.	Remember	CLO1	[5]

Internal Test – I

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Group	: ALL

Semester	: II
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Date	13/02/2024	Duration	45 min.	Max. Marks	30	SET No.	IV

University Roll No.

(To be filled by the Student)

Assessment Pattern as per Bloom's Taxonomy:

Remember	Understand	Apply	Analyze	Evaluate	Create	Total
23	7					30

Course Learning Outcomes for Assessment in this Test:

CLOs	Course Learning Outcome
CLO1	Understand the concept of data types, loops, functions, array, pointers, string, structures and files.
CLO2	Illustrate flow-chart, algorithm and program logic.

			Pattern	Mapping CLOs	Marks
Q. 1		**Very short answer type questions. Write the answer in one or two lines.**			**[4X2=8]**
	a)	How to write line comments?	Remember	CLO1	[2]
	b)	What is identifier?	Remember	CLO2	[2]
	c)	What is variable?	Remember	CLO1	[2]
	d)	Explain debugging.	Understanding	CLO2	[2]
Q. 2		**Short answer type questions. Write the answer in 250 words.**			**[3X4=12]**
	a)	What is the difference between compiler and interpreter?	Remember	CLO1	[4]
	b)	What is the output of the code char ch= 'A'; printf("\n %c \n %3c \n %5c", ch,ch,ch);	Remember	CLO1	[4]
	c)	What is the size and range of data types int, char, and float?	Remember	CLO2	[4]
Q. 3		**Long answer type questions. Write the answer in 500 words.**			**[2X5=10]**
	a)	What are the different types of errors? Explain in details.	Remember	CLO1	[5]
	b)	Explain arithmetic operators with the help of program.	Understanding	CLO2	[5]