

Max Marks: 75

Code No: R10105 / R10

I B.Tech I Semester Regular/Supplementary Examinations January 2012

C PROGRAMMING (Common to all branches)

Time: 3 hours

Answer any FIVE Questions All Questions carry equal marks

- 1.(a) What is an algorithm? Write an algorithm to arrange three integer elements in ascending order.
 - (b) What are the programming development steps? Explain.

[8M+7M]

- 2.(a) Write briefly about the C Tokens with suitable examples.
 - (b) Write a program to find largest of three numbers using conditional operator.

[7M+8M]

- 3.(a) Write briefly about bit-wise operators with suitable examples
 - (b) Write a program to award the grade to the students, based on average marks (Use switch statement).

[8M+7M]

4. What are the different types of iterative statements? Explain each with suitable example.

5.(a) What is an array? Describe array declaration, initialization and accessing array elements.

(b) Write a program to implement matrix multiplication using two dimensional arrays.

[7M+8M]

- 6.(a) What are the different types of storage classes? Explain each with suitable example.
 - (b) Write a program to generate Fibonacci series using recursive function.

[7M+8M]

- 7.(a) What is a pointer? Describe call by value and call by address with suitable examples
 - (b) Write a program to arrange a set of strings in ascending order using pointer.

[7M+8M]

- 8.(a) List the differences between structure and union. Describe structure declaration, initialization and accessing elements.
 - (b) Write briefly about the self referential structure and dynamic memory management functions.



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- 1.(a) What are the computer languages? Explain and Draw the flow chart for finding the smallest of three numbers.
 - (b) What are the different types of operators in C programming language? Give an example on each operator.

[7M+8M]

- 2.(a) Write briefly about the two-way and multi-way selection statements.
 - (b) Write a program to print the given any integer number in words using switch and while statements.

[7M+8M]

- 3.(a) What are the advantages of for loop? List the differences between for loop and do while loop. Give an example on break and continue statements.
 - (b) Write a program to print the given format

	*		
	*	*	
*	* *		

[7M + 8M]

- 4.(a) Explain in detail about 1-Dimensional and 2- Dimensional array declaration, accessing elements, initialization with suitable examples.
 - (b) Write a program to arrange characters of any given string in ascending order.

[8M+7M]

- 5.(a) Write briefly about the user defined functions and standard library functions. Give an example on parameter passing and static storage class.
 - (b) Write a program to implement towers of Hanoi using recursive function.

[8M+7M]

- 6.(a) What is dangling pointer? Give an example on pointers to pointer and passing by address.
 - (b) Explain about dynamic memory allocation functions and use of command line arguments.



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Set No. 2

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- 7. Write short notes on
 - (a) Structures and Functions, Bit -Fields
 - (b) Structure and union
 - (c) Extern, auto and register storage classes.

[5M+5M+5M]

- 8.(a) Describe in details about file handling functions in C programming language.
 - (b) Write a program to copy the one file data into another file.

[8M+7M]



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Answer any FIVE Questions All Questions carry equal marks

- 1.(a) what is pseudo code? Draw the flow chart for finding factorial of a number.
 - (b) List out differences between interpreter and compiler. Discuss different computer languages.

[7M+8M]

- 2.(a) Write a program to find the roots of a quadratic equation.
 - (b) Write a program to find the reverse of a given integer using while.

[7M+8M]

- 3.(a) Explain different selection statements with their syntax
 - (b) Write a program using do-while loop for the following format.

1

2 2

3 3 3

4 4 4 4

5 5 5 5 5

[7M+8M]

- 4.(a) What is an Array? Explain compile time and run time initialization with suitable examples.
 - (b) Write aprogram for finding trace of a matrix using 2-dimensional arrays.

[7M+8M]

- 5.(a) What is recursion? Write aprogram to search an element in an array using recursive function.
 - (b) Define function? Explain functions with return type and non-return type with suitable examples.

[7M+8M]

- 6.(a) What are command line arguments. Write a program to count the number of strings on the command line.
 - (b) What is a pointer? Discuss call by value and call by reference with suitable examples.







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Set No. 3

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- 7.(a)What is nested structure? Write aprogram to print the details of employees of aorganization like(Name, DateOfJoin, Salary) using nested structures.
 - Give difference between structure and union. Write a program using union. (b)

[8M+7M]

- What is a file? How do you declare a file? Explain different modes of operations on files 8.(a)with examples.
 - Write a program to merge the content of two files into a third file. (b)

[8M+7M]



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Answer any FIVE Questions All Questions carry equal marks

- 1.(a) Write an algorithm and draw the flowchart for finding the area of a circle.
 - (b) Explain the different steps involved in creating and running programs with a neat flowchart.

[7M+8M]

- 2.(a) What are an identifiers, variables and constants? Mention the rules to construct an identifier. Give some examples.
 - (b) Explain the structure of a C program with an example to each step.

[8M+7M]

- 3.(a) Write a program to find the largest number in an array of elements.
 - (b) Explain different string manipulation functions with examples.

[7M+8M]

- 4.(a) What is an array? What are its advantages? Explain declaration, intialization, accessing elements in an array.
 - (b) Write a program to display a string in the following format.

[8M+7M]

J

JN

JNT

JNTU

JNT

JN

T

- 5.(a) What are the different storage classes? Explain with suitable examples.
 - (b) Write a program for finding GCD of two numbers using recursive function.

[7M+8M]

- 6.(a) What is a void pointer? Explain array of pointers with an example.
 - (b) What is the difference between character pointer and integer pointer? Write a program using pointer to pointer with functions.







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Set No. 4

- 7. Write short notes on
 - (a) pointer to structures.
 - (b) difference between structure and union.
 - (c) bitfields.

[5M+5M+5M]

- 8.(a) Write a program to reverse the first n characters in a file.
 - (b) What is a text file, binary file? Explain formatted I/O in files.