

- Q.25 Define between While & do- While loop. (CO-2)
- Q.26 Define array . Explain its various type. (CO-9)
- Q.27 Difference between structure and union. (CO-5)
- Q.28 Write a program in C to print odd numbers upto 30. (CO-7)
- Q.29 Explain various data types available in C. (CO-3)
- Q.30 Explain various forms of IF statement. (CO-2)
- Q.31 Write a program to print factorial of 5. (CO-8)
- Q.32 Explain for loop with example. (CO-2)
- Q.33 Explain various steps in development of a program. (CO-7)
- Q.34 Explain various symbols used in flowchart. (CO-2)
- Q.35 Difference between call by value & call by reference. (CO-4)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain various operators available in Java with example. (CO-7)
- Q.37 Define function . Explain its type with example. (CO-5)
- Q.38 Write a program to add two matrices. (CO-8)

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3rdSem /Computer Engg
Subject : Programing in C

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 In C code, the line that begins with/ * and ends with */ is known as ? (CO-6)
- Multiline comment
 - Single line comment
 - Both A & B
 - None of these
- Q.2 Who developed C programming Language? (CO-6)
- James Gosling
 - M.P Java
 - Dennis Ritchie
 - Blais Pascal
- Q.3 Which symbol is used to assign a value to a variable. (CO-3)
- =
 - ;
 - /
 - .

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- Q.4 Which access specifier is used to indicate integer data type . (CO-6)
- a) %c b) %f
 c) %d d) %s
- Q.5 <= is a _____ operator. (CO-2)
- a) Arithmetic b) Unary
 c) Relational d) Logical
- Q.6 How many bytes of memory does a integer data type takes for storage. (CO-2)
- a) 2 b) 4
 c) 8 d) 16
- Q.7 How many keywords are available in C (CO-3)
- a) 30 b) 36
 c) 28 d) 32
- Q.8 In which year C was developed (CO-6)
- a) 1972 b) 1986
 c) 1995 d) 2001
- Q.9 _____ is a _____ operator. (CO-3)
- a) Arithmetic b) Unary
 c) Binary d) Relational
- Q.10 Output of 8%2 is: (CO-2)
- a) 4 b) 6
 c) 0 d) 2

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SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Expand PDL. (CO-1)
- Q.12 How a pointer is declared. (CO-4)
- Q.13 Name any two header files. (CO-3)
- Q.14 What is a keyword. (CO-3)
- Q.15 Define Recursion. (CO-4)
- Q.16 Write the syntax of for loop. (CO-2)
- Q.17 Define variable. (CO-3)
- Q.18 Define Algorithm. (CO-1)
- Q.19 Define Array. (CO-5)
- Q.20 Define Function. (CO-9)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Difference between compiler & Interpreter. (CO-8)
- Q.22 Draw a flowchart to find greatest of two numbers. (CO-7)
- Q.23 Explain various operator available in C. (CO-1)
- Q.24 Explain input & output statement used in C. (CO-3)

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- functions
- Q.28 Are the following statements in C correct ? If not give reasons.
- a) Print ("Hello Everyone")
 - b) Scanf ("%d", fact);
 - c) int a==30;
 - d) for (i=0, i<=10, i++)
 - e) a + b = c;
- Q.29 Give advantages of using functions in a program.
- Q.30 Why do we use STRUCTURE? How a structure is declared.
- Q.31 Discuss the formatted input and output statements used in C.
- Q.32 Write a short note on any one of the following
- i) Program Debugging
 - ii) Data type casting
- Q.33 Give the syntax of SWITCH statement. Discuss in brief.
- Q.34 Differentiate between WHILE and DO-WHILE loops.
- Q.35 What are Global and Local variables. Discuss in brief.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. 2x10=20
- Q.36 Write a program in C for multiplication of two matrices.
- Q.37 Explain the steps involved in development of a program.
- Q.38 Discuss the various operators used in C.

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SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The pictorial representation of a algorithm is called _____
- a) Algorithm
 - b) Program
 - c) Code
 - d) Flow chart
- Q.2 Among unary operation which operator represent increment?
- a) -
 - b) ++
 - c) -
 - d) !
- Q.3 A function _____
- a) May or may not pass parameters
 - b) May or may not return a value
 - c) Both a and b
 - d) None of these
- Q.4 C programs are converted into machine language with the help of
- a) An Editor
 - b) A compiler
 - c) An operating system
 - d) None of the above

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- Q.5 What is an array?
- An array is a collection of variables that are the dissimilar data type.
 - An array is a collection of variables that are of the same data type.
 - An array is not a collection of variables that are the same data type.
 - None of the above.
- Q.6 What is the work of break keyword?
- Halt execution of program
 - Restart execution of program
 - Exit from loop or switch statement
 - None of the above
- Q.7 C language developed at _____?
- AT & T's Bell Laboratories of USA in 1972
 - AT & T's Bell Laboratories of USA in 1970
 - Sun Microsystems in 1973
 - Cambridge University in 1972
- Q.8 Which symbol is used as a statement terminator in C?
- !
 - #
 - ~
 - ;
- Q.9 Which pair of functions below are used for single character I/O.
- Getchar() and putchar()
 - Scanf() and printf()
 - Input() and output()
 - None of these
- Q.10 Continue statement is used
- to go to the end of the loop
 - come out of a loop
 - exit and return to the main function
 - go to beginning of the loop

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SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Give the syntax for the while loop in c.
- Q.12 Define Variable.
- Q.13 While defining a variables name, you can use any special character. (True/False)
- Q.14 Define pointer.
- Q.15 Give the syntax of "if statement" in c language.
- Q.16 Where are the global variables declared in a C program.
- Q.17 What are various types of comment statements used in C language.
- Q.18 A character type variable requires _____ bytes to be stored in memory.
- Q.19 Give the format specifier used for
- Integer
 - float
- Q.20 Name any two unconditional control statements in C.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Differentiate between STRUCTURE and UNION.
- Q.22 Discuss the various symbols used for constructing a flow chart.
- Q.23 Define recursion? Give the program for finding factorial of a number using recursion.
- Q.24 Write a program to print the table of a given number.
- Q.25 Give the difference between call by value and call by reference.
- Q.26 Define Array. What are the various types of arrays? Discuss in brief.
- Q.27 What are strings? Discuss any three string related

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