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Roll No.

**3rd Sem. / Computer, Computer
(For Speech and Hearing Impaired),ECE, ECE
(For Speech and Hearing Impaired)
Subject : Programming in C**

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)

- Q.1 C is a combination of
a) Statements b) Functions
c) Variables d) All of the above
- Q.2 Types of Integers are
a) Short b) Int
c) Long d) All of the above
- Q.3 What is the extension of C file?
a) .html b) .c
c) .class d) .java
- Q.4 Every statement in C should end with a
a) Dot b) Comma
c) Semicolon d) Colon

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- Q.5 Which access specifier is used to indicate float data type
a) %d b) %c
c) %f d) %s
- Q.6 How many bytes of memory does an Int data type takes for storage?
a) 2 b) 4
c) 8 d) 16

Section-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Symbol of address operator is _____(& or *).
- Q.8 A function which call it self is called recursive function. (True/False)
- Q.9 For loop is used for iteration. (True/False)
- Q.10 The _____ symbol is used at the beginning of a flow chart.
- Q.11 String is collection of number. (True/False)
- Q.12 Increment operator is _____(++/^^)

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)

- Q.13 Define Algorithm. Write an algorithm to find average of three numbers.

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- Q.14 Write basic structure of C program.
- Q.15 What is array? How it is declared?
- Q.16 Write a program in C to find largest of three numbers.
- Q.17 Define function and write four advantages of functions.
- Q.18 Explain input / output statements available in C.
- Q.19 What do you mean by relational operators in C? Explain with examples.
- Q.20 Explain basic data types available in C.
- Q.21 What are Pointers? List any four benefits of pointers.
- Q.22 Differentiate between printf and scanf.

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. (2x8=16)

- Q.23 Explain different data types used in C
- Q.24 Explain the steps in development of a program.
- Q.25 Explain various loops available in C.

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SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 What is the extension of a C file

- a) .html b) .class
- c) .c d) .java

Q.2 ++ is a _____ operator

- a) Arithmetic b) Unary
- c) Relational d) Logical

Q.3 In which year C was developed

- a) 1972 b) 1986
- c) 1995 d) 2001

Q.4 How many bytes of memory does a integer data type takes for storage.

- a) 2 b) 4
- c) 8 d) 16

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Q.5 Which symbol is used to assign a value to a variable

- a) . b) ;
- c) / d) =

Q.6 Every statement in C language should end with a

- a) Dot b) Comma
- c) Semicolon d) colon

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define Variable.

Q.8 Name any two Header files used in C.

Q.9 How Multi Line comments are written in C.

Q.10 Define Keywords.

Q.11 Define Recursion.

Q.12 Who developed C.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Explain various symbols used in flowchart.

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- Q.14 Explain various forms of IF statement.
- Q.15 Difference between while loop & do while loop.
- Q.16 Explain input & output statement used in C.
- Q.17 Define Function. Explain its types.
- Q.18 Define pointer. How it is declared.
- Q.19 Write an algorithm to find area of rectangle.
- Q.20 Define File. Explain in brief various operations that can be performed in a file.
- Q.21 Write a program to print factorial of a number.
- Q.22 Difference between structure & Union.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain various operators available in C.
- Q.24 Explain steps in development of a program.
- Q.25 Define Array. Explain its types. Write a program to read and print the elements of an array.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 a) Define function with its types.
b) Explain the use of `fopen()` and `fclose()`.
- Q.24 Explain different types of loops in C with the help of examples.
- Q.25 Write a program to create and access a structure that stores employee records.

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SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Who is the father of C language?
a) Steve Jobs b) James Gosling
c) Dennis Ritchie d) Rasmus Lerdorf
- Q.2 Which of the following are themselves a collection of different data types?
a) String b) Structures
c) Char d) All of the above
- Q.3 Which among the following is NOT a logical or relational operator?
a) `!=` b) `==`
c) `||` d) `=`

- Q.4 Which data type is most suitable for storing a number 65000 in a 32-bit system?
- a) Signed short b) Unsigned short
c) Long d) Int
- Q.5 The value obtained in the function is given back to main by using ____ keyword.
- a) return b) Static
c) New d) Volatile
- Q.6 A variable declared in a function can be used in main().
- a) True
b) False
c) True if it is declared static
d) None of the above

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Which symbol is used for comment in C?
- Q.8 What is recursion?
- Q.9 Write the keyword to declare a constant in C.
- Q.10 Mention one conditional control statement.

- Q.11 What does malloc () do?
- Q.12 Define pointer?

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 What do you mean by data type? Explain basic data types in “C” with examples.
- Q.14 Describe properties of a good program.
- Q.15 Explain the use of the switch-case statement with example.
- Q.16 Write a program to find the sum of all elements in an array.
- Q.17 Explain one-dimensional and two-dimensional arrays.
- Q.18 Explain union and how it differs from structure.
- Q.19 Explain string input / output function in “C”.
- Q.20 Write down the difference between actual parameter and formal parameters.
- Q.21 Define flowchart. Write down its advantages.
- Q.22 Write a program using pointer to swap two numbers.

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SECTION-A

Note: Multiple choice questions. All questions are compulsory. (6x1=6)

Q.1 In which year, C was developed

- a) 1986 b) 1972
- c) 1995 d) 2001

Q.2 Which symbol is used to assign a value to a variable

- a) . b) ;
- c) / d) =

Q.3 Which of the following is not a C Keyword?

- a) if b) Switch
- c) Else d) Class

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Q.4 Which operator is used to find the remainder of two numbers in C?

- a) \ b) %
- c) # d) *

Q.5 When an algorithm is written in the form of a programming language, it becomes a

- a) Flowchart b) Syntax
- c) Program d) Pseudocode

Q.6 Loops in C language are implemented using?

- a) While block b) For block
- c) Do while block d) All the above

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Array is _____ data type.

Q.8 Write full form of PDLC.

Q.9 A function written by a programmer is called user defined function. (True/false)

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- Q.10 A variable that is used to hold the memory address of another object is called _____
- Q.11 If-else statement is used for decision making. (True/false)
- Q.12 _____ is an input function in C. (printf/scanf)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Define flowchart. Draw a flowchart to find larger among two numbers.
- Q.14 Explain while loop with example.
- Q.15 Differentiate between call by value and call by reference.
- Q.16 Explain arithmetic operators in C language.
- Q.17 What is pointer? Explain its benefits.
- Q.18 List various modes of accessing files.
- Q.19 Write an algorithm to multiply two numbers.
- Q.20 Write the advantages of Structure over union.

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- Q.21 Explain different types of statements with example.
- Q.22 What is function? Explain the need of function.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain various operators available in C.
- Q.24 Define array. Explain its types. Write a program to read and print the elements of an array.
- Q.25 What do you mean by loop constructs in C? Explain various loop constructs used in C with example.

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