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Roll No.

3rd Sem / Eltx., Mechatronics, Med. Eltx.
Subject:- Computer Programming using C /
Comp. prg. & App.

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 In which year was C invented
a) 1970 b) 1971
c) 1972 d) 1973
- Q.2 Bitwise NOT is represented by
a) \sim b) |
c) || d) ~
- Q.3 Data type double has size of
a) 2 bytes b) 4 bytes
c) 8 bytes d) 16 bytes
- Q.4 Which bracket is used for declaration of array
a) () b) {}
c) [] d) none of these
- Q.5 The escape sequence \b stands for
a) beginning b) backspace
c) both d) none of these

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- Q.6 scanf() and printf() are defined in which header file
a) conio.h b) stdlib.h
c) stdio.h d) none of these
- Q.7 Line terminator in C is
a) : b) '
c) ; d) none of these
- Q.8 How many reserved words are there in C?
a) 8 b) 16
c) 32 d) 64
- Q.9 1010>>2
a) 0001 b) 0101
c) 0010 d) none of these
- Q.10 Which of the following is a reserved word in C
a) copy b) paste
c) register d) none of these

SECTION-B

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

- Q.11 The conversion character for integer is _____
- Q.12 1010>>2= _____
- Q.13 Bitwise EX-OR is represented by _____ symbol.
- Q.14 A loop that is executed at least once, even if the condition is false is _____
- Q.15 What is the difference between getch and getche?

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- Q.16 What is the output of following C code
`1!=0?1:0;`
- Q.17 What is subscript in C?
- Q.18 An array is a collection of _____ elements.
- Q.19 $\sim 10101101 =$ _____
- Q.20 The only function required in all C program is _____

SECTION-C

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

- Q.21 Elaborate Escape Sequences in C.
- Q.22 Explain single line and multiple line comments in C.
- Q.23 Elaborate bitwise operators in C.
- Q.24 Explain the difference between while and do while loops in C.
- Q.25 Clearly explain the difference between break statement and exit() function with examples.
- Q.26 Write a program in C to find the value of $(x)^y$
- Q.27 Explain the data-types in C.
- Q.28 Name all reserved words in C.
- Q.29 Draw the truth-table of \bar{U} gate in C.
- Q.30 Explain the difference between 1D & 2D arrays with example.

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- Q.31 `Float a[3][2] = {1,2,3,4,5,6};`
 value of `a[1][1]` = _____
- Q.32 Explain the allocation of memory to the following array `int a[4][3];`
- Q.33 `int a[5] = {1,2,3,4,5};`
 The base address = 1000
 Find out the address and value of `a[3]`
- Q.34 Explain the syntax and semantics of multi-dimensional arrays.
- Q.35 Write a program in C to print day of the week using switch-case statement.

SECTION-D

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

- Q.36 Compare for, while & do-while loops with proper examples.
- Q.37 Explain Logical & Bitwise operators in C.
- Q.38 Explain call by value & call by reference methods of parameters passing in C.

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