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Roll No.

3rd Sem / Eltx., Mechatronics, Med. Eltx.

**Subject:- Computer programming using C /
Comp. Prog. & Appl.**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 How many reserved words are there in C?
a) 8 b) 16
c) 32 d) 64
- Q.2 scanf() and printf() are defined in which header file?
a) conio.h b) stdlib.h
c) stdio.h d) none of these
- Q.3 Data types char has size of
a) 1 bytes b) 2 bytes
c) 4 bytes d) 8 bytes
- Q.4 Which loop is an exit-controlled loop?
a) for b) while
c) switch-case d) do-while
- Q.5 The escape sequence \0 stands for
a) beginning b) backspace
c) both d) none of these

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Q.6 The only function required in each C program is

- a) clrscr() b) strlen()
c) main() d) exit()

Q.7 Line terminator in C is

- a) : b) '
c) ; d) none of these

Q.8 function pow(x,y) is defined which header file?

- a) conio.h b) math.h
c) stdlib.h d) none of these

Q.9 Which of following is a reserved word in C?

- a) copy b) paste
c) register d) none of these

Q.10 The escape sequence \a stands for

- a) return b) bell
c) backspace d) none of these

SECTION-B

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

- Q.11 bitwise OR is represented by _____ symbol.
- Q.12 A structure is a collection of _____ elements.
- Q.13 A loop that is executed at least once, even if the condition is false is _____
- Q.14 What bitwise EX-OR is represented by _____ symbol?

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- Q.15 What is the difference between getch and getche?
- Q.16 What is the output of following C code
`l==0?1:0;`
- Q.17 What is subscript in C?
- Q.18 An array is a collection of _____ elements.
- Q.19 $10101101 \wedge 01001100 =$ _____
- Q.20 The only function required in all C programs is _____

SECTION-C

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

- Q.21 What are communicators in C?
- Q.22 What is an index in an array?
- Q.23 Elaborate relational 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 ^ 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 `char a[5] = {'a','b','c','d','e'};`
 The base address = 1000
 Find out the address and value of `a[2]` & `a[3]`
- Q.34 Explain the syntax and semantics of multidimensional arrays.
- Q.35 Write a program in C to print month of the year using switch-case statement.

SECTION-D

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

- Q.36 Explain call by value & call by reference methods of parameter passing in C.
- Q.37 Write a program in C to concatenate two strings in C.
- Q.38 Compare for, while & do-while loops with proper examples.

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