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Roll No.

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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

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
1==0?1:0;
- Q.17 What is subscript in C?
- Q.18 An array is a collection of _____ elements.
- Q.19 10101101^01001100=_____
- 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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