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Roll No.

181034/171034/121034

**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 Which one of the following is a loop construct that will always be executed once?
a) for b) while
c) switch d) do while
- Q.2 Which is valid expression in c language?
a) intmy_num=100,000;
b) intmy_num=100000;
c) int my num=1000;
d) int my num==10000;
- Q.3 Array is a _____ data structure.
a) Non-linear b) Primary
c) Linear d) Data type
- Q.4 A global variable is declared _____.
a) Outside of the function
b) Inside of the function
c) With the function
d) Anywhere in the program

- Q.5 Which of the following is not an arithmetic operation?
a) $x^*=65$; b) $x/=42$;
c) $x \% =2$; d) $x !=56$;
- Q.6 Which symbol is used to declare a pointer?
a) * b) #
c) & d) &&
- Q.7 Who is the father of C language?
a) Steve Jobs b) James Gosling
c) Dennis Ritchie d) RasmusLerdorf
- Q.8 All keywords in C are in _____.
a) LowerCase letters
b) UpperCase letters
c) CamelCase letters
d) None of the mentioned
- Q.9 What will be the final value of x in the following C code?
1) #include <stdio.h>
2) void main()
3) {
4) int x=5*9/3+9;
5) }
a) 3.75 b) Depends on compiler
c) 24 d) 3
- Q.10 Maximum number of elements in the array declaration int a[5][8] is
a) 28 b) 32
c) 35 d) 40

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SECTION-B

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

- Q.11 What is a nested loop?
- Q.12 What is the modulus operator?
- Q.13 What is the difference between the = symbol and == symbol?
- Q.14 Which of the following operators is incorrect (>=, <=, <>, ==)
- Q.15 What is debugging?
- Q.16 What does the || operator do in a program code?
- Q.17 Define an array.
- Q.18 In C programming, what command code can be used to determine if a number is odd or even?
- Q.19 What does the function toupper() do?
- Q.20 Give the syntax of "if statement" in C language.

SECTION-C

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

- Q.21 Compare and contrast compilers from interpreters.
- Q.22 Write a program to print N natural numbers.
- Q.23 What is the difference between break and continue?
- Q.24 Describe the order of precedence with regards to operators in C.

- Q.25 What are multidimensional arrays? Explain with example.
- Q.26 Define recursion. Explain with an example program.
- Q.27 Give the difference between call by reference and call by value.
- Q.28 What is the difference between for and while loop?
- Q.29 Write short note on arithmetic operators?
- Q.30 Explain various logical operators.
- Q.31 What is a pointer? How is it declared in C?
- Q.32 Give the syntax of switch statement with example.
- Q.33 Define an algorithm. Write an algorithm to swap two numbers.
- Q.34 Define an array. How is it declared in C.
- Q.35 Write the advantages of using function.

SECTION-D

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

- Q.36 Explain the steps involved in development of a program.
- Q.37 What are loop constructs. Discuss various loop constructs used in C.
- Q.38 Write a program to add two matrices.