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Roll No.

181034/171034/121034

**3rd Sem / Elx, Mechatronics, Med. Elx.
Subject:- Computer Programming in C
/ Comp. prg. & App**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

Q.1 Which of these is NOT a relational or logical operator?

- a) = b) ||
c) == d) !=

Q.2 We cannot use the keyword 'break' simply within_____.

- a) while b) for
c) if-else d) do-while

Q.3 The global variables are_____.

- a) External
b) Internal
c) Both external and Internal
d) None of the above

Q.4 In the C language, the constant is defined_____.

- a) Before main
b) After main

- c) Anywhere, but starting on a new line.
d) None of these

Q.5 How many times will the following loop execute?
`for(j=1;j <= 10;j=j-1)`

- a) Forever b) Never
c) 0 d) 1

Q.6 What is an example of iteration in C?

- a) for b) while
c) do-while d) all of the above

Q.7 `scanf()` is a predefined function in _____ header file.

- a) stdlib.h b) ctype.h
c) stdio.h d) stdarg.h

Q.8 The operator `&&` is an example for _____ operator.

- a) Assignment b) Increment
c) Logical d) Rational

Q.9 Which is the correct way to declare a pointer?

- a) int_ptr; b) int*ptr;
c) *int ptr; d) None of these

Q.10 Operator precedence determines which operator

- a) Operators on the largest number
b) Is used first
c) Is most important
d) None of these

SECTION-B

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

- Q.11 How do you declare a variable that will hold string values?
- Q.12 When is the "void" keyword used in a function?
- Q.13 How do you insert comments in a C program?
- Q.14 What is logical error?
- Q.15 What is debugging?
- Q.16 What does the || operator do in a program code?
- Q.17 Define an array.
- Q.18 What is a function?
- Q.19 Give syntax of scanf statement
- Q.20 What is the difference between gets and puts?

SECTION-C

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

- Q.21 What are header files and what are its uses in C programming?
- Q.22 What are variables and in what way is it different from constants?
- Q.23 How do you access the values within an array?
- Q.24 Write a program to find if a number is even or odd.

- Q.25 What are the different types of control structures in programming?
- Q.26 What are pointers? Explain with example.
- Q.27 Create a simple code fragment that will swap the values of two variables num1 and num2.
- Q.28 Define array. What are various types of array?
- Q.29 Write a program to print table of number.
- Q.30 Give advantages of using functions in a program.
- Q.31 Discuss the formatted input and output statement used in C.
- Q.32 Difference between while and do-while loops.
- Q.33 Give the syntax of switch statement. Discuss in brief.
- Q.34 What is flowchart? Draw a flowchart to find greatest of three numbers.
- Q.35 What is an infinite loop. Explain with an example.

SECTION-D

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

- Q.36 Write a program in C for multiplication of two matrices.
- Q.37 Discuss the various operators used in C.
- Q.38 Explain the steps involved in development of a program.