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120825/030825

**2nd Sem./ Computer Engg.
Subject:- Programming in C**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

Q.1 What is the output of $10 \% 3$

- a) 3 b) 10
c) 1 d) 0

Q.2 Which is valid C expression?

- a) int my_num=10,000;
b) int my_num=10000;
c) int my num=10000;
d) int \$my_num=10000;

Q.3 How many keywords are available in C

- a) 30 b) 32
c) 23 d) 10

Q.4 Increment operator, $++$, increase value of variable by what number

- a) 2 b) 3
c) 0 d) 1

Q.5 Which of the following is not C keyword

- a) While b) do
c) system d) else

Q.6 Every statement in C language should end with a ?

- a) . b) ,
c) ; d) :

Q.7 \geq is a _____ operator

- a) Arithmetic b) Unary
c) Relational d) Logical

Q.8 Who developed C

- a) Dennis Ritchie b) James Gosling
c) Jonny Bair d) Thomson

Q.9 How many bytes does an integer data type takes to store in memory

- a) 0 b) 2
c) Infinity d) 4

Q.10 The access specifier for float is :

- a) %d b) %c
c) %i d) %f

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SECTION-B

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

- Q.11 In which year C was developed
- Q.12 What is the purpose of Continue statement
- Q.13 Define Recursion
- Q.14 Define Variable
- Q.15 Define Interpreter
- Q.16 Write the syntax of While Loop
- Q.17 Name any two keywords are available in C
- Q.18 How many bytes of memory does a float data type takes for storage
- Q.19 Define File
- Q.20 Name any two header files

SECTION-C

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

- Q.21 Define string. Write a program to calculate the length of a string
- Q.22 Difference between while & do-while loop

- Q.23 Write an algorithm to Multiply two numbers
- Q.24 Explain Else If statement with example
- Q.25 Draw a flowchart to find greatest of two numbers
- Q.26 Explain primitive data types available in C
- Q.27 How comments are written in C
- Q.28 Difference between structure & union
- Q.29 Define Recursion. Explain its use with example
- Q.30 Explain for Loop with example
- Q.31 Write a program to find smallest of two numbers
- Q.32 Define Function. Explain its types
- Q.33 Explain basic file operations
- Q.34 Define pointer. How it is declared, explain with example
- Q.35 Explain various types of array

SECTION-D

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

- Q.36 Explain structure of a C program
- Q.37 Explain various operators available in C
- Q.38 Explain various Loops available in C