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**NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA**

(An Autonomous Institute)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

**B.Tech**

**FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021)**

(Subjective Type)

**Subject Code: ACSE0201**

**Max. Mks. : 30**

**Subject: Programming for Problem Solving using C**

**Time : 50 Minutes**

**General Instructions:**

*All questions are compulsory.*

*Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.*

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
1	Explain the concept of Algorithms and Flow chart with example.		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart
2	Define an operating system and explain its characteristics?		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart
3	What is the use of main() in C program?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
4	Discuss the different types of constants used in C language?		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart
5	Explain different type of bitwise operators with example.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
6	Show operator precedence and associativity in arithmetic operators.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
7	Discuss the loop statement in C language with proper example		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
8	Explain the role of 'break' statement in C using example.		Attempt any 10 questions	10 x 3=30	3		Subjective	Genius

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
9	Discuss the use of <code>#define</code> preprocessor directive? Give name of any two.		Attempt any 10 questions	10 x 3=30	3		Subjective	Genius
10	what are the advantages of using function?		Attempt any 10 questions	10 x 3=30	3		Subjective	Genius
11	Explain merits and demerits of array?		Attempt any 10 questions	10 x 3=30	3		Subjective	Genius
12	Write a program to find sum of diagonal element in the 2- D array in which elements of array is entered by user.		Attempt any 10 questions	10 x 3=30	3		Subjective	Genius
13	What is Embedded System?		Attempt any 10 questions	10 x 3=30	3		Subjective	Genius
14	Differentiate between <code>ftell()</code> and <code>fseek()</code> functions.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
15	Differentiate between Text file and binary file.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant