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C16-AEI-403

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BOARD DIPLOMA EXAMINATION, (C-16)
OCT/NOV—2018
DAEI—FOURTH SEMESTER EXAMINATION
PROGRAMMING IN 'C'

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. List different data types in C.
2. List the Arithmetic operators in C.
3. Write the syntax of conditional operator.
4. Define a loop. List the loop statements.
5. Define an array.
6. State declare and initialization of a string variables.
7. List various standard built in functions.
8. Define recursion.
9. Write the syntax for assigning a pointer.
10. State difference between structure and union.

PART-B

10×5=50

- * **Instructions :** (1) Answer *any five* questions.
(2) Each questions carries **ten** marks.
(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. Explain printf() and scanf() functions with examples.
12. Explain the switch statement with example.
13. Explain the following :
- (a) while loop
 - (b) for loop
14. Write a C program of matrix addition using two dimensional array.
15. Write a C program to reverse a given string.
16. Write a C program on any function call to find sum and average of five numbers.
17. (a) Explain any two return values and their types.
(b) Differentiate local and external variables.
18. Write a C program to perform arithmetic operations on variables using pointers.

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