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C14-AEI-404

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BOARD DIPLOMA EXAMINATION, (C-14)

JUNE—2019

DAEIE—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 the five arithmetic operators.
2. Write about increment and decrement operators in C with examples. 1½+1½=3
3. Write the syntaxes for if, if-else statements in C. 1½+1½=3
4. Differentiate between break and continue statements. 1½+1½=3
5. Define string give an example.
6. List three functions used for reading strings.
7. Define a function.
8. List the four storage classes supported by C.
9. Write about any three preprocessing directives. 1×3=3
10. Define a structure.

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PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Explain about various type conversion techniques and discuss them with a sample C program.
12. Explain switch case statement supported by C with a sample C program. 5+5=10
13. (a) Differentiate between while, do-while. 5
(b) Write a C program to print *n*-numbers starting from 1 using for-loop. 5
14. (a) Explain about string manipulation functions strcat (), strcpy (), strlen () and strcmp () along with their syntaxes. 6
(b) Write a sample program using above string manipulation functions. 4
15. (a) Define an array. Write the syntaxes to declare 1D arrays and 2D arrays with examples. 5
(b) Write a C program to print sum of elements in a 1 dimensional array. 5
16. (a) Differentiate local and external variables. 5
(b) Define pointer. Write the syntax to declare a pointer and initialization of pointer variable. 5
17. Define recursion and explain with an example program.
18. Explain initialization of structures with sample C program. 5+5=10

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