



C14-AEI-404

4416

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**MARCH/APRIL—2017**  
**DAEIE—FOURTH SEMESTER EXAMINATION**  
**PROGRAMMING IN 'C'**

Time : 3 hours ]

[ Total Marks : 80

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**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 basic data types in C.

2. What are the arithmetic operators in C?

3. Write the usage of continue statement.

4. List the three types of iterative statements.

5. What is an array? How to declare an array?

1+2

6. List any three functions used for reading strings.

7. Define function. Write the uses of a function.

8. List the uses of pointers.

\* 9. Write any three differences between structure and union.

10. Define structure.

**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 various types of conversion techniques in C.

12. Explain the syntax of switch case statement with an example.

13. Explain the following :

5+5

(a) while loop

(b) do-while loop

14. Write a C program to find the smallest value in an array of 10 numbers.

15. Explain the string manipulation functions with examples.

16. What are the various storage classes available in C? Explain them briefly.

17. Write a C program using pointers to compute the sum of all elements stored in an array.

18. Explain structure variable and structures initialized with an example.

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