



15480-EC-015

C14-EC-406

4439

BOARD DIPLOMA EXAMINATION, (C-14)  
MARCH/APRIL—2017  
DECE—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 primary data types.

2. Write logical operators with their precedence.

3. What are the branching (conditional) statements used in C?

4. Write difference between While and Do-While loops in C.

5. What is difference between simple variable and array?

6. Define a string.

7. Define a function call. Give one example.

8. What is pointer and how to declare a pointer in 'C'?
9. Define union.
10. State difference between structure and array.

**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. (a) Explain about the conditional (ternary) operator in C with example.  
(b) Explain about the increment and decrement operators. 5+5=10
12. (a) Write a program to check the number is palindrome or not.  
(b) Explain about the syntax of nested if-else statement in C. 5+5=10
13. (a) Write the difference between entry control loop and exit control loop.  
(b) Write a program to factorial of given number. 5+5=10
14. Explain the following string functions : 10  
(a) Strcat  
(b) strcpy  
(c) strcmp  
(d) strlen
15. (a) Describe gets() and puts() functions.  
(b) What is an array? How to declare and initialize an array? 5+5=10

16. Explain about call by value and call by reference with example. 10
17. What are storage classes in C? Explain with examples. 10
18. Explain about the following preprocessor directives : 10
- (a) Define
  - (b) Include
  - (c) Ifdef
  - (d) Ifndef

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