



C14-EC-406

**4460**

**BOARD DIPLOMA EXAMINATION, (C-14)**

**OCT/NOV—2016**

**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. Write the structure of a C program.
2. List the logical operators supported by C.
3. What is the use of comma operator?
4. Differentiate break and continue statements.
5. Explain the operation of strcat() function.
6. What is an array and how one-dimensional array is declared?
7. List the four storage classes supported by C.
8. Define recursion.
9. Distinguish between structures and unions.
10. List six unconditional preprocessor directives.

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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.** (a) Explain bitwise operators supported by C. 5  
(b) Explain initialization of structures. 5
- 12.** Explain about nested if-else statement with syntax and explain with a sample program. 4+3+3
- 13.** Write a C program to find maximum and minimum of given numbers. 10
- 14.** Explain the operations of getchar(), getch(), getche() and putchar() functions.  $2\frac{1}{2}\times 4=10$
- 15.** Write a C program to copy the content of one string into another and count the number of characters copied. 10
- 16.** Write a C program to find out the sum and average of numbers in an array using functions. 10
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- 17.** (a) What is a pointer? What are the advantages of pointers in C? 5  
(b) Explain the process of declaring and initializing pointers. 5
- 18.** Explain passing of individual members of a structure to a function with example program. 7+3=10

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