



C14-EC-406

4460

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**MARCH/APRIL—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 basic structure of a C program. 3
2. Write the differences between assignment and equality operators. 3
3. Write if and if...else statements in C.  $1\frac{1}{2}\times 2=3$
4. Write a simple C program to generate first  $n$  natural numbers using 'for loop'. 3
5. Write the use of getchar() and putchar() functions in C.  $1\frac{1}{2}\times 2=3$
6. Define a string in C. 3
7. Define a function. 3
8. What is pointer? 3

- \* 9. Write the use of structures with an example. 3
10. List any three preprocessor directives. 3

**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) Write any five merits of C language. 5  
 (b) Explain how to find the size of a structure. 5
12. (a) Explain while and do...while loop in C. 5  
 (b) Write a C program to check and print whether a given number is odd or even. 5
13. (a) Write short notes on go..to, break and continue statements. 2×3=6  
 (b) Write a C program to find the biggest of three numbers. 4
14. Explain about arrays and array initialization techniques. 10
15. Explain any four string handling functions with examples. 10
16. Explain different types of storage classes in C. 10
17. Write short notes on pointer arithmetic and pointers with arrays. 5+5=10
- \* 18. (a) Explain structure assignment. 5  
 (b) Write about the preprocessor directives #define and #include with examples. 2½×2=5

\*\*\*