



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

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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
