4460

BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2018
DECE—FOURTH SEMESTER EXAMINATION

PROGRAMMING IN C

Time : 3 Hours]   [*Total Marks* : 80

PART—A   3×10=30

Instruction :   (1)   Answer **all** questions. 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 merits of C language.   3

2.   Write about basic input, output functions in C. $1\frac{1}{2}$×2=3

3.   Write the syntax of a conditional Expression with an example. $1\frac{1}{2}$×2=3

4.   Write about 'break' and 'continue' statements. $1\frac{1}{2}$×2=3

5.   What is an array? Give examples for it.   2+1=3

6.   Define string variables in C.   3

7.   What is a recursion in C?   3

8.   Write the different types of storage classes in C.

9.   Define a structure with an example.

10.   Write the differences between structures and unions.   3

PART—B   5×10=50

Instruction : (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 answers.

11. *(a)* Explain basic data types in C, give the examples by declaring on variables.

    (b) Explain how to find the size of a structure.

12. Write short notes on while loop, for loop, if..else and switch in C. $2^{1}/_{2} \times 4 = 10$

13. Write a program to check the given character is a vowel or not. 10

14. Explain any four string fead/write functions with simple examples. 10

15. Write a c Program for 2×2 addition. 10

16. *(a)* Write the uses of fiunctions. 5

    (b). Explain the ways of passing the parameters to a function. $2^{1}/_{2} \times 2 = 5$

17. Explain the process of declaration, initilization and access of variables through pointers. 10

18. *a.* Write the use of unions with examples. 5

    b. Write the use of pre-processors in C, write any two pre-processor directives with examples. 3+2= 5

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