C14-EC-406

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. $1^1/_2 \times 2 = 3$

3. Write the syntax of a conditional Expression with an example. $1^1/_2 \times 2 = 3$

4. Write about 'break' and 'continue' statements. $1^1/_2 \times 2 = 3$

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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