



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. $1\frac{1}{2}\times 2=3$
3. Write the syntax of a conditional Expression with an example. $1\frac{1}{2}\times 2=3$
4. Write about 'break' and 'continue' statements. $1\frac{1}{2}\times 2=3$
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

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- 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. $2\frac{1}{2} \times 4 = 10$
13. Write a program to check the given character is a vowel or not. 10
14. Explain any four string read/write functions with simple examples. 10
15. Write a c Program for 2×2 addition. 10
16. (a) Write the uses of functions. 5
(b). Explain the ways of passing the parameters to a function. $2\frac{1}{2} \times 2 = 5$
17. Explain the process of declaration, initialization 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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