

4460**BOARD DIPLOMA EXAMINATION, (C-14)****JUNE-2019****DECE - FOURTH SEMESTER EXAMINATION****PROGRAMMING IN C****Time: 3 Hours]****[Max. Marks: 80****PART - A****10x3=30M**

- Instructions:** 1) Answer **all** questions. Each question carries **three** marks.
2) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1) Give the syntax for Printf(), and scanf() functions.
- 2) List the five arithmetic operators in 'C'
- 3) What is the use of null statement.
- 4) Give the syntax for Do-While loop.
- 5) Define string.
- 6) Briefly write about strcat() and strchr() functions.
- 7) What is pointer arithmetic? Give an example.
- 8) Differentiate address and dereferencing operators.
- 9) List any three conditional preprocessor directives.
- 10) Differentiate union and structure.

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PART-B

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10x5=50M

- Instructions:** 1) Answer any five questions.
2) Each question carries ten marks.
3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11) Explain type conversion techniques in C.
- 12) Write a C program based on nested for loops.
- 13) Explain the syntax for while loop and write a program using that.
- 14) Write a C program using one dimensional array.
- 15) Define recursion and write a program using recursive function.
- 16) Write a program using strcmp() and strlen() functions.
- 17) Illustrate with an example, how the pointer can be used to realize parameter passing by reference.
- 18) Explain passing entire structure as function argument, with example.

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