

4416**BOARD DIPLOMA EXAMINATION, (C-14)****MARCH/APRIL-2019****DAEIE - FOURTH SEMESTER EXAMINATION****PROGRAMMING IN 'C '**

Time: 3Hrs

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) Define variable. Write the syntax to declare a variable in C with example.
- 2) List any three logical operators in C.
- 3) Write the syntax for switch statement in C.
- 4) Write the syntax for nested if statement.
- 5) Define string with an example.
- 6) List three functions used for writing strings.
- 7) Define a pointer and write the syntax to declare a pointer variable.
- 8) Define recursion.
- 9) List any three conditional preprocessing directives.
- 10) Define nesting of structure with one example.

PART-B

10x5=50M

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

- 11) (a) Explain the increment and decrement operators. 5M
(b) Explain about various type conversion techniques . 5M
- 12) Explain about nesting of loop statement and write a sample program based on nested loops. 5+5M
- 13) (a) Differentiate between while and do-while loop Statements. 4M
(b) Write a C program to print n-numbers starting from 1. 6M
- 14) (a) Explain about string manipulation functions Strcpy(), and strcmp() along with their syntaxes. 6M
(b) Write the syntaxes to declare 1D array and 2D array with one example for each. 4M
- 15) Define an array. Explain about how to access array elements with a simple C program. 2+8M
- 16) Explain with an example program parameter passing by reference.
- 17) (a) Define a function. State the use of return statement with an example. 5M
(b) Write the syntax for function define or function Implementation give an example. 5M
- 18) Differentiate between structure and union.

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