

4032**BOARD DIPLOMA EXAMINATION, (C-14)****MARCH/APRIL-2019****DCME - FIRST YEAR EXAMINATION****PROGRAMMING IN C**

Time: 3 Hours

Max. Marks:80M

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) List the steps involved in executing a C program.
- 2) How to declare a variable in C? Give examples.
- 3) Write the syntax for printf() and scanf() statements.
- 4) Write the syntax and flow chart of simple-if statement.
- 5) Write the differences between break and continue statement.
- 6) How do you declare a one dimensional array of float to store 10 values?
- 7) Distinguish between scanf(), gets().
- 8) What are the advantages of functions?
- 9) List the dynamic memory handling functions.
- 10) Write short notes on fopen().

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PART-B

5x10=50M

Instructions: 1) Answer any **five** questions. Each question carries **ten** marks.

2) Answer should be comprehensive and the criterion for valuation is the content but not length of the answer.

- 11) a) Explain ternary operator with an exmple. 5M
b) Differentiate local and global variables. 5M
- 12) a) Explain nested-if statement with example program. 5M
b) Write a C program to check the given number is even or odd. 5M
- 13) a) Explain for loop statement with syntax, flow chart and sample program. 5M
b) Write a C program to check the given number is prime number or not. 5M
- 14) Write a C program to perform Matrix Addition. 10M
- 15) Explain recursion with example program. 10M
- 16) a) Write a swap function using call by reference 5M
b) How to access one dimensional array elements using pointers with an example. 5M
- 17) a) Explain how to declare structure with an example. 5M
b) Write the differences between structure and union. 5M
- 18) Explain preprocessor directives with examples. 10M

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