

C16-CM/IT-106

6026

BOARD DIPLOMA EXAMINATION, (C-16) MARCH/APRIL—2018 DCME—FIRST YEAR EXAMINATION

PROGRAMMING IN C

Time: 3 hours [Total Marks: 80

PART—A

 $3 \times 10 = 30$

Instructions: (1) Answer all questions.

- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.
- 1. List any three steps involved in C program execution.
- 2. Define an identifier and mention the rules to form it.
- **3.** Differentiate between scanf() and printf().
- **4.** Write the syntax of if-else statement.
- **5.** Write the syntax of exit controlled loop with an example.
- **6.** Define an array. Give the syntax to declare an array of size 10 and array name : X.
- **7.** List any three string handling functions.

8. List any three storage classes available in C. **9.** State the purpose of malloc() and realloc() functions in C. **10.** Write how to create your own user defined data types in C. PART—B $10 \times 5 = 50$ **Instructions**: (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 answer. 11. Write a C program to print the 'Grade' of the student. Read 6 subject marks from the keyboard. Each subject carries 100 marks (total = 600). 10 Grade calculations: Percentage>=70 Grade-Distinction Percentage>=60&&percentage<70 Grade-First Percentage>=50&&percentage<60 Grade-Second Percentage>=40&&percentage<50 Grade-Pass Grade-Fail Percentage<40 (a) Explain nested for loop. 3 (b) Write a C program to print 7th table using nested for loop. 7 13. Write a C program to find the biggest and smallest among N numbers using arrays. 10 14. Write a C program to find the factorial of a given number using Recursive function. 10

(a)	Explain about precedence and associativity of operators.	5
(b)	Explain about scope and lifetime of variables.	5
		10
(a)	Write the differences between structure and union.	5
(b)	Explain about array and structures in C.	5
(a)	What is a preprocessor? Explain #include and #define directives.	5
(b)	Explain any five file handling functions in C.	5
	(b) Writusir (a) (b)	(a) What is a preprocessor? Explain #include and #define directives.

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