

$c_{09-CM-105/c_{09-IT}-105}$

3025

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL-2014

DCME—FIRST YEAR EXAMINATION

COMPUTER FUNDAMENTALS AND PROGRAMMING IN C

Time: 3 hours]

[Total Marks : 80

PART—A

3×10=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 the major functional blocks of CPU.	3
2. Convert the following :	3
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3. What is a batch file? What is command prompt?	1+2
4. List the advantages of computer networks.	3
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- **5.** Write any three differences between an algorithm and a flowchart. 3
- **6.** List the logical operators with their precedence.
- What is an array? Write declaration and initialization of an array.
 3
- 8. What is the purpose of malloc() function? Give its syntax. 2+1
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10.	List the output functions for writing data to a file.	3
	PART—B 10×5	=50
Inst	uctions : (1) Answer any five questions.	
	(2) Each question carries ten marks.	
	(3) Answers should be comprehensive and the criter for valuation is the content but not the length the answer.	
11.	(a) Differentiate between RAM and ROM.	4
	(b) Explain BCD and EBCDIC schemes.	3+3
12.	What is the need for an operating system? What are the functions of operating system?	4+6
13.	Explain any five Internet connection method.	10
14.	Explain the fundamental data types in C language.	10
15.	(a) Write a C program to print the multiplication table for a given number.	4
	(b) Write a C program to check whether the given number is Armstrong or not.	6
16.	(a) Write a C program to sort the elements in a single- dimension array.	5
	(b) List the string handling functions in C language and explain any two of them.	5
17.	(a) What are the differences between local and external variables?	4
	(b) Write a C program to print even numbers between 1 to 100 using recursion.	6
18.	(a) Write a C program to perform arithmetic operations on variables using pointers.	6
	(b) Differentiate an array with a single variable.	4
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9. Give any three differences between structure and array.

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