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## 4466

## BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2017 DEEE—FOURTH SEMESTER EXAMINATION

## PROGRAMMING IN C

Time	e: 3 hours ] [Fotal Marks: 8	30
Inst	PART—A 3×10=3 ructions: (1) Answer all questions.	30
	(2) Each question carries three marks.	_
	(3) Answers should be brief and straight to the point an shall not exceed <i>five</i> simple sentences.	ıd
1.	Define variable. Write the syntax to declare variables in C. 1+	-2
2.	List the logical operators available in C.	3
3.	List various conditional statements available in C.	3
4.	Write the syntax of 'while' loop.	3
5.	Define the term string. How to declare and initialize it? 1+1+	- 1
6.	Explain how to access array elements.	3
7.	What is user-defined function? What is the need for user-defined function?	3
8.	List any three differences between local and external variables.	3
9.	Define the term 'union'. Give the syntax to define union.	-2
10.	Explain how to access structure members.	3

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Inst	ruct	tions: (1) Answer any five questions.	
		(2) Each question carries <b>ten</b> marks.	
		(3) Answers should be comprehensive and the criter for valuation is the content but not the length of answer.	
11.	(a)	Write a short note on keywords.	5
	(b)	Write a C program to illustrate the concept 'pointer arithmetic'.	5
12.	(a)	Define loop. List the iterative statements available in C.	4
	(b)	Write a C program to find the sum of $1 \ 2 \ 3 \ \cdots \ n$ using 'for' loop.	6
13.	(a)	Write the syntax of switch statement.	4
	(b)	Write a C program to perform arithmetic operations using 'switch' statement.	6
14.	Wr	ite a C program to perform the addition on two 2×2 matrices.	10
15.	(a)	Write various string handling functions.	4
	(b)	Write a C program to check whether the given string is palindrome or not.	6
16.	(a)	Define function and give the syntax to define a function.	4
	` ,	Explain the concept of 'functions with arguments and no return values' with a C program.	6
17.		ite a C program to swap the two numbers by using the cept 'call by value'.	10
18.	(a)	Differentiate between an array and a structure.	4
	(b)	Define a structure named 'book' and take its members "title, author, pages, price" and declare its variable as 'book <sub>1</sub> ', initialize it and also display 'book <sub>1</sub> ' values.	6