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

PROGRAMMING IN C

Time	e: 3 hours] [Total Mark	cs : 80
	PART—A 3>	×10=30
Inst	cructions: (1) Answer all questions.	
	(2) Each question carries three marks.	
	(3) Answers should be brief and straight to the point shall not exceed five simple sentences.	nt and
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 us defined function?	er- 3
8.	List any three differences between local and external variable	s. 3
9.	Define the term 'union'. Give the syntax to define union.	1+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 ten marks.	
		(3) Answers should be comprehensive and the criteri for valuation is the content but not the length of t 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
	(b)	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 acept '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 ₁ ', initialize it and also display 'book ₁ ' values.	6

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