

C16-CM-106/C16-IT-106

6026

BOARD DIPLOMA EXAMINATION, (C-16) OCT/NOV-2017 DCME-FIRST SEMESTER 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 features of C language.
- **2.** List various types of C tokens.
- **3.** List the logical operation and name them.
- **4.** Give the syntax of GOTO statement and list any two disadvantages of it.
- **5.** Write the syntax of an entry-controlled loop with an example.
- **6.** Define an array. In the given example, find out the value of a[2]: int $a[3] \{14, 16, 20\}$;
- **7.** What is the purpose of gets(), function? Write the syntax.

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10.	Def	ine self-referential structure and its purpose.				
		PART—B 10×5=	50			
Inst	Instructions: (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)	Compare if-else-if ladder statement with switch statement.	5			
	(b)	Write a C program to find the average of biggest and smallest of two numbers using ternary operator.	5			
12.	(a)	Explain do-while loop.	3			
	(b)	Write a C program to check whether the given number n is palindrome or not by using while (read n value through keyboard).	7			
13.		te a C program to perform the multiplication of 2 2 trices.	10			
14.	(a)	Define a function and briefly explain different types of user-defined functions.	5			
	(b)	Write a C program to calculate the sum of the digits of a given number using function.	5			
15.	(a)	Explain about various assignment operators.	5			
	(b)	Differentiate between an ordinary function and a recursive function.	5			
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8. Define a recursive function and state the need of it.

9. What is the purpose of a NULL pointer?

16.	with	te a C program to exchange the contents of two variables nout using temporary variable and by using call by value cept.	10
17 .	(a)	Explain nested structures in brief.	5
	(b)	Write a C program to create a node which consist of student basic details like name, pin-no., phone no., branch and address, and print it.	5

18. Write a C program to create and display the contents of text file.

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