

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.

/**6026** 1 [Contd...

10.	Def	ine self-referential structure and its purpose.	
		PART—B 10×5= ions: (1) Answer any five questions. (2) Each question carries ten marks.	50
Inst	ruct	ions: (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 tanswer.	
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.	Wri ma	te a c program to perform the multiplication of 2 2 trices.	10
	2	in the second se	
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
/602	26	2 [Conto	d

8. Define a recursive function and state the need of it.

9. What is the purpose of a NULL pointer?

16 .	Write a C program to exchange the contents of two variables	
	without using temporary variable and by using call by value	
	concept.	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

10

* /6026 3 AA7(A)—PDF