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C14-CM-106/C14-IT-106

4032

BOARD DIPLOMA EXAMINATION, (C-14)

JUNE—2019

DCME—FIRST YEAR EXAMINATION

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. Write the importance of C language.
2. List the basic data types of C.
3. Write sample C program using scanf (), printf ().
4. Write the syntax of switch statement.
5. Define loop. List the loop statements of C.
6. How to initialize an array a[5] with the values 20·5, 30·6, 15·7, 3·8, 9·3?
7. List any four string handling functions.
8. List the types of functions in C. Give an example in each case.
9. List the differences between address and dereferencing operators.
10. How to declare a file pointer to a file?

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PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. (a) Explain increment, decrement operators used in C with examples. 5
- (b) Define recursion. Write a C program to find factorial of a given number using recursion. 5
12. List and explain various decision making statements used in C language.
13. (a) Explain how a for-loop is nested in another for-loop with an example. 5
- (b) Write a C program to check whether the given number is Armstrong number or not. 5
14. Write a C program to find the largest of n numbers using arrays.
15. Explain the classification of functions based on parameters and return type with examples.
16. (a) Explain how to pass pointers as function arguments with an example. 5
- (b) Explain the use of malloc () with a sample program. 5
17. Explain array of structures with example.
18. Write a C program to create and display a text file.

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