



C09-CM-105/C09-IT-105

3025

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2016

DCM—FIRST YEAR EXAMINATION

COMPUTER FUNDAMENTALS AND PROGRAMMING IN C

Time : 3 hours ]

[ Total Marks : 80

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**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 a cache memory.

2. What is ASCII coding scheme?

3. What is meant by disk defragmentation?

4. Write the structure of URL.

5. Write any three differences between an algorithm and a flowchart.

6. What is a macro? Give an example.

7. Explain how to initialize one-dimensional array.

- \* 8. Differentiate between address and differencing operators.
- 9. How to find size of a structure?
- 10. List the file opening modes.

**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) Convert the decimal number 43.375 to equivalent binary number.  
(b) Convert the decimal number 1024 to equivalent binary number.
- 12. Explain any five external and internal commands.
- 13. Explain the installation procedure of a modem using Control Panel.
- 14. Explain data types in C with examples along with their sizes.
- 15. (a) Write the difference between the while and do-while loops.  
(b) Write a C program to find whether the given year is leap year or not.
- 16. Write a C program to check whether the given string is palindrome or not.
- \* 17. (a) Explain two dimensional arrays with example.  
(b) What is relationship between array and pointer?
- 18. Define recursion and explain with example.

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