



C14-CM-106/IT-106

4032

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2015

DCM—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. State the importance of C language. 3
2. What is an identifier? Give two examples. 2+1
3. Explain the usage of printf function with an example. 2+1
4. Write the syntax of 'if-else' statement. Give one example. 2+1
5. Explain the syntax of 'for loop'. 3
6. Define array. Give one example. 2+1
7. Define string. Give two examples. 2+1
8. Write the syntax of function definition. 3
9. Explain initialization of a pointer with example. 3
10. State the need of preprocessor directives. 3

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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 logical operators used in C with their precedence.
(b) Differentiate between local and external variables. 5+5
- 12.** Write a C program to find whether a given character is vowel or not using switch statement. 10
- 13.** (a) Differentiate between 'while' and 'do-while' loops with an example.
(b) Illustrate the usage of break statement. 5+5
- 14.** (a) Explain how to assign values to array elements with example.
(b) Explain reordering an array in ascending order. 5+5
- 15.** (a) Illustrate the usage of functions with arguments that return values.
(b) Define recursion. 6+4
- 16.** (a) Explain how pointers can be manipulated in arithmetic operations.
(b) Explain calloc() function with an example. 6+4
- 17.** (a) Write the syntax of structure variable declaration. Give one example.
(b) Illustrate the usage of structure as a function argument. 5+5
- 18.** Explain any five file opening modes. 2×5
