



C14-EE-406

4466

**BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
DEEE-FOURTH SEMESTER 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. List various tokens in C language.
2. Differentiate between '=' and '==' in C language.
3. What is conditional operator? Give its syntax.
4. What are the looping statements used in C ?
5. Define One-Dimensional Array with example.
6. Write the use of strlen () and strcpy () functions.
7. What is the difference between a function declaration and function definition ?
8. Differentiate between addressing and de-referencing operator.
9. Define a STRUCTURE with an example.
10. How the structure members are accessed ?

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

- 11.** (a) Explain about printf () and scanf () function with suitable examples.
(b) Write a C program to initialize an employee structure with members as emp-name, emp-num. emp-sal and display the contents.
- 12.** What are the branching statements used in C ? Explain with example.
- 13.** Write a C program to calculate and print the first 'n' Fibonacci series like
1,1,2,3,5,8,13,21.....
- 14.** Write a C program for 2×2 matrix additions.
- 15.** Explain the following string functions:
i) strcat() ii) strcpy() iii) strcmp() iv) strlen() v)strrev()
- 16.** What are the various storage classes available in C language? Explain briefly.
- 17.** Explain the concept of pointers to functions with example.
- 18.** (a) Distinguish between STRUCTURES and UNIONS.
(b) Explain about pointer arithmetic.

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