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 langauge.

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 centents.

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.

* * *