



C14-EE-406

4466

BOARD DIPLOMA EXAMINATION, (C-14)  
OCT/NOV—2016  
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 any six keywords available in C. 3
2. What is type conversion? List various type conversion techniques in C. 1+2
3. List the three iterative statements supported by C. 3
4. Write the syntax of 'switch' statement. 3
5. What is an 'array'? How to declare and initialize it? 1+(1+1)
6. Write a C program to reverse the string 'SBTET'. 3
7. Define the term 'function'. List the types of function. 3
8. List any three storage classes supported by C. 3
9. Define the term 'structure'. Write the syntax to define a structure. 3
10. List any three preprocessor directives supported by C. 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) Briefly explain arithmetic operators supported by C. 5  
(b) Define pointer. How to declare and initialize it? Write an example in C program. 5
12. (a) Explain 'if-else-if' statement. 3  
(b) Write a C program to find the largest among given three numbers using 'if-else-if' statement. 7
13. (a) Explain FOR loop. 3  
(b) Write a C program to find the factorial of a given number using FOR loop. 7
14. Write a C program to perform the multiplication on two  $2 \times 2$  matrices. 10
15. Briefly explain any five string-handling functions with examples. 10
16. Write a C program to generate Fibonacci sequence as 0, 1, 1, 2, 3, ... using functions. 10
17. Write a C program to swap two numbers by using the concept 'call by reference'. 10
18. (a) Explain how to find the size of a 'union'. 3  
(b) Define a structure named 'student' and take its members—'name', 'age', 'roll number' and declare its variable as 's<sub>1</sub>', initialize it and also display 's<sub>1</sub>' values. 7

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