



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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1

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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 2×2 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 's₁', initialize it and also display 's₁' values. 7
