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BOARD DIPLOMA EXAMINATION, (C–16)
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.

1. List few arithmetic operators and their purpose in C.

2. List various data types with their sizes in C.

3. Write the syntax of a 'while' loop.

4. What is a null statement?

5. What are the syntax for declaring a 1-D array and a 2-D array?

6. Define a string. Give two examples of string.

7. Give importance of void.

8. Define a local variable with example.

9. Define pointer. Give an example.

10. What is a pre-processor? What are the types of pre-processor directives?

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)* What is the difference between a pre-increment and post-increment operators? Explain with examples.

(b) What is union? Explain with its syntax.

12. Write a program to demonstrate the 'switch-case' statement.

13. What is nested 'if' statement? Write a program to find the biggest of three numbers.

14. Write a program to arrange N numbers in ascending order.

15. What are string handling functions? Explain any four string handling functions.

16. Explain the need for user defined function with an example program.

17. Explain the four storage classes in C.

18. Explain the difference between structure and union with an example.

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