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C14–EC–406

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BOARD DIPLOMA EXAMINATION, (C–14)

MARCH/APRIL—2017

DECE—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. What is type conversion?

2. List any four relational operators supported by C.

3. What is the use of null statement?

4. List the four conditional statements.

5. Explain the initialization of two dimensional arrays with example.

6. List any functions used for writing strings.

7. Define a function.

8. List the applications of external declaration.

9. Define a union.

10. Explain how to find the size of the structure.

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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)* Explain arithmetic operators supported by C. 5

(b) Explain any three conditional preprocessor directives. 5

12. Write a C program to read a value in range 1 to 12 and print the name of that month. 10

13. Distinguish various looping statements. 10

14. Write the operations of strcat( ), strcmp( ), strcpy( ) and strlen( ) functions. 2½×4=10

15. Write a C program to find the largest element in an array. 10

16. What is the relationship between arrays and pointers? Explain it with examples. 6+4=10

17. Write a C program to print multiplication table of a given number using functions. 10

18. Explain nested structure concept with an example program. 6+4=10

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