7250

BOARD DIPLOMA EXAMINATION, (C-20)

MAY—2023

DEEE - THIRD 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. Write the general form of 'printf' function.

2. List any three relational operators used in C language.

3. List any three looping statements.

4. What is 'break' statement?

5. Define the term array.

6. State the use of the string handling function 'strrev'.

7. What is function in C language?

8. State the need of the user defined functions in programming.

9. Define the term union.

10. List any three unconditional preprocessor directives.

Instructions : (1) Answer **all** questions.

(2) Each question carries **eight** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. *(a)* Explain the arithmetic operators and logical operators used in C language.

(OR)

(b) Explain the assignment statements and compound assignment operators used in C language.

12. *(a)* Write a C program using the 'if' condition to find the smallest of the three numbers.

(OR)

(b) Write a C program using the 'while' loop to find the sum of consecutive integers from 1 to 10.

13. *(a)* Write a C program to store the first ten Fibonacci numbers in an array.

(OR)

(b) Write a C program to convert the given lower case string into the upper case string.

14. *(a)* Write a C program using the function call technique to find whether the given year is leap year or not.

(OR)

(b) Differentiate between local variables and external variables.

15. *(a)* Explain how to find the size of the structure and access the members of the structure with an example.

(OR)

(b) Explain the relationship between the arrays and pointers with an example.

Instructions : (1) Answer the following question.

(2) The question carries **ten** marks.

(3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

16. Write a C program to sort the array of ten integers in the ascending order.

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