

7250

BOARD DIPLOMA EXAMINATION, (C-20)  
NOVEMBER/DECEMBER—2022  
DEEE – THIRD SEMESTER EXAMINATION  
PROGRAMMING IN C

Time : 3 hours ]

[ Total Marks : 80

**PART—A**

3×10=30

- Instruction :** (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. How do you write comments in C?
2. List any six keywords of C.
3. State any three techniques of conversion in C.
4. Give the importance of 'break' and 'continue' statements in loops.
- \* 5. What is array and how do you initialize the ID array?
6. Give the syntax, example and purpose of **strlen()** function.
7. List any three inbuilt functions of C.
8. What is the importance of static storage class?
9. Give the syntax to declare a union by stating its purpose.
10. List any six pre-processor directives available in C.

**PART—B**

8×5=40

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- 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 procedure of arithmetic and relational operators with their precedence in C programming.

**(OR)**

- (b) Explain the procedure of assignment operators of C with examples.

- 12.** (a) Explain the working of *if-else* statement with syntax and give the example program.

**(OR)**

- (b) Explain the working of *for Loop* with syntax and example program.

- 13.** (a) Write a C program to find the smallest number in a given array of 10 numbers.

**(OR)**

- (b) Write a C program using any three string handling functions other than **strlen()**.

- 14.** (a) Write a C program using a user defined function to find the average of three numbers with parameters and with return values.

**(OR)**

- (b) Write a C program using *Local and External* variables.

- 15.** (a) Explain the initialization of a structure in C, with an example.

**(OR)**

- (b) List the pointers and discuss the pointer arithmetic in C.

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**PART—C**

10×1=10

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- 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.** Is it possible to handle 2D arrays without using for loops? If yes, write a program to find the biggest element of each row of a 2D matrix without using *for loop*. If not, give the reasons to justify your answer.

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