

С20-ЕЕ-306

7250

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—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.** Define the terms constant and variable.
- 2. What is the purpose of scanf() statement and write its syntax.
- **3.** Differentiate between 'break' and 'continue' statement in any three aspects.
- **4.** List different iterative loop statements in C.
- **5.** Define 1-D array and list the two ways to initialize it.
 - **6.** Write the syntax to declare a string variable with an example.
 - **7.** State the need for user-defined functions.
 - **8.** List any three storage classes available in C.
 - 9. Define a structure and give an example to it.
- 10. What do you mean by 'call by reference' and 'call by value'?

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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) Write a C program to swap the values of two variables without using third variable.

(OR)

- (b) Explain different arithmetic operators in C with their precedence and write an example program.
- **12.** (*a*) Explain the working of if-else statement with an example program.

(OR)

- (b) Write a C program to print the lowercase alphabets using while loop.
- **13.** (a) Write a C program to declare, initialize an array with 10 elements and to print the biggest number among them.

(OR)

- (b) Write a C program to find the length of the string after addition of two strings.
- **14.** (*a*) Write a C program using functions to print a multiplication table of a given number.

(OR)

- (b) Write a C program using local and external variables.
- **15.** (*a*) Explain how to find the size of a structure. Illustrate with an example program.

(OR)

(b) Write a C program to interchange the elements of a character array using pointers.

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- (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 write a loop statement that will show the following output? If yes, write a C program to print the output pattern shown below. If not, give the reasons to justify your answer.
 - 1 1 2 1 2 3 1 2 3 4 1 2 3 4 1 2 3 4 5

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