## 7250

## **BOARD DIPLOMA EXAMINATION, (C-20)**

## JUNE/JULY-2022

### **DEEE - THIRD SEMESTER EXAMINATION**

## PROGRAMMING IN C

Time : 3 hours ]

## PART—A

3×10=30

[ Total Marks : 80

- **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 identifier and keywords.
  - 2. Give the syntax and purpose of printf() statement.
  - **3.** Give the if-else equivalent of ternary operator.
  - 4. Give the importance of break in switch statement.
  - 5. Give the definition and list any two types of arrays in C.
  - 6. List any four string handling functions of C.
  - 7. What is the need of return and void keywords to deal with functions?
  - 8. State the importance of the keyword static in C.
  - **9.** Declare a union with four members out of which two are integers and one is char and other one is a float.
  - **10.** State the importance of #include directive.

/7250

[ Contd...

## www.manaresults.co.in

PART-B

**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 find the area of the triangle when three sides are given.

#### (**OR**)

- (b) Explain any two types of operators of C.
- **12.** (a) Explain the working of if ladder with syntax and an example program.

### (OR)

- (b) Write a program in C to print all even numbers between 1 and N using for loop.
- **13.** (a) Write a C program to declare, initialize an array with 5 elements and to find the smallest number among them.

#### (**O**R)

- (b) Write a C program to declare and initialize three strings and to print them.
- **14.** (a) Write a C program using a user defined function to find the sum of three numbers with parameters and with return values.

## (OR)

(b) Write a C program using local and external variables.

/7250

[ Contd...

# www.manaresults.co.in

- \*
- **15.** (a) Explain structure declaration, initialization and accessing members with an example.

## (OR)

(b) Illustrate with example how pointer can be used to realize the effect of parameter passing by reference.

**Instructions :** (1) Answer the following question.

- (2) Question carries **ten** marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
- **16.** Is it possible to handle 1D arrays without using for loops? If yes write a program to find the biggest element of N numbers using do-while loop for reading the array and while loop to print the array and for loop to find the biggest of N numbers. If not give the reasons to justify your answer.

 $\star \star \star$ 

/7250

3