



## **ED-2676**

B.Sc. (Part-I) Examination, 2021

### **INFORMATION TECHNOLOGY**

Paper - II

Programming in C Language

*Time* : Three Hours] [*Maximum Marks* : 50

---

**Note** : Answer any **two** parts from each question. All questions carry equal marks.

---

#### **Unit-I**

1. (a) What are data types in 'C' language?  
Explain.
- (b) What do you understand by variables and constants? Explain with example.
- (c) Write a program in 'C' language that calculates simple and compound interest.

---

DRG\_32\_(3)

*(Turn Over)*

( 2 )

**Unit-II**

2. (a) Explain break and continue statement with suitable example.
- (b) Write a program in 'C' language to find out whether a number is odd or even.
- (c) What do you understand by 'call by value' and 'call by reference'? Explain with suitable example.

**Unit-III**

3. (a) Write advantages and disadvantages of array in 'C' language.
- (b) Explain the difference between structure and union.
- (c) Explain the syntax and working of the following function related to strings :
  - (i) strlen
  - (ii) strcpy
  - (iii) strcmp
  - (iv) strstr()

**Unit-IV**

4. (a) Define pointer. Discuss use of reference operator(&) and indirection operator(\*).
- (b) Write a program into demonstrate array of pointers.
- (c) Write short note on pointer and string.

( 3 )

**Unit-V**

5. (a) What is preprocessor ? Explain any three directives.
- (b) Explain file accessing function with example.
- (c) Write a program to show the use of the file handling function.
- \_\_\_\_\_