# G-1/606/22

Roll No	
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# I Semester Examination, January 2022 PGDCA

Paper III

(Programming in "C")

Time: 3 Hours [ Max. Marks: 80

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

#### Unit-I

- 1. (a) What do you understand by constant, variables and format specifiers for scanf() explain both with example.
  - (b) List out header files which can be include in C program ? Why are they included ? What are header file ?
  - (c) Write a C language program to convert binary number to a decimal number.

# **Unit-II**

**2.** (a) Explain the concept of function in detail. Write a C program to swapping of two integer number using function.

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- (b) Explain difference between while and dowhile loop with example.
- (c) What is if-statement and if-else statement?
  Write a C program to find largest three number using if-else statement.

## **Unit-III**

- **3.** (a) What is Array? What is multidimesional array? Write a C program to add the elements of array.
  - (b) Write short notes on the following:
    - (i) Pointer,
    - (ii) Referencing pointer,
    - (iii) Pointer to pointer,
    - (iv) Pointer constants.
  - (c) Write a C program to count the number of Vowels in string using pointer.

### **Unit-IV**

- **4.** (a) What is Union? Write a C program to illustrate the use of Union.
  - (b) Explain array of structure with suitable example.

(c) Write a C program that demonstrate passing structure to function.

#### Unit-V

- **5.** (a) What are various dynamic memory allocation function? Explain.
  - (b) Write short notes on the following:
    - (i) Dynamic multi-dimensional array.
    - (ii) Error handling.
  - (c) What are various file handling functions used in C? Explain.

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