

0702
POST GRADUATE DIPLOMA IN COMPUTER APPLICATION
EXAMINATION, 2019
PROGRAMMING & PROBLEM SOLVING
THROUGH “C” LANGUAGE

Paper – II

Time: Three Hours

Maximum Marks: 75

PART – A (खण्ड – अ)

[Marks: 20]

Answer all questions (50 words each).

All questions carry equal marks.

सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न का उत्तर 50 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART – B (खण्ड – ब)

[Marks: 35]

Answer five questions (250 words each).

Selecting one from each unit. All questions carry equal marks.

प्रत्येक इकाई से एक-एक प्रश्न चुनते हुए, कुल पाँच प्रश्न कीजिए।

प्रत्येक प्रश्न का उत्तर 250 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART – C (खण्ड – स)

[Marks: 20]

Answer any two questions (300 words each).

All questions carry equal marks.

कोई दो प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 300 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART – A

- Q.1 (i) What is Debugging? [2]
- (ii) Define prime number. [2]
- (iii) Define Nested loops. [2]
- (iv) Differentiate between variable and constant. [2]
- (v) Define Array. [2]
- (vi) What is modular programming? [2]
- (vii) What is Union? [2]
- (viii) Define pointer assignment. [2]
- (ix) Define Linked list. [2]
- (x) What is meant by File processing? [2]

PART – B

UNIT –I

- Q.2 What is a flow chart? Explain various symbols used in flow chart. [7]

OR

Write short notes on-

- (i) Basic model of computation. [3]
- (ii) Algorithm for Fibonacci sequence. [4]

UNIT –II

- Q.3 Discuss various operators in C. [7]

OR

Explain switch statement with an example. [7]

UNIT -III

Q.4 Write a C program to find the largest element in an array. [7]

OR

Write short notes on:-

- (i) Prototype of a function [2]
- (ii) Call by value and reference [3]
- (iii) Formal parameter list. [2]

UNIT -IV

Q.5 Discuss structure in C with example. [7]

OR

Explain array and pointers with example. [7]

UNIT -V

Q.6 Write a note on self-referential structures. [7]

OR

Discuss the file processing. [7]

PART - C

Q.7 (a) Write an algorithm to find GCD (Greatest Common Division) of two numbers. [5]

(b) Write a note on algorithms and documentation. [5]

- Q.8 (a) Differentiate between while and do-while loops with example. [5]
- (b) Write a C program to test whether a given three digit number is Armstrong or not. [5]
- Q.9 Write a C program to multiply two 3×3 matrix. [10]
- Q.10 Write short notes-
- (i) Array of structures [5]
- (ii) Function and pointers [5]
- Q.11 (a) Discuss the creation, insertion and deletion for linked list with example. [7]
- (b) Explain various mode of file opening. [3]
