

2018

Total Pages : 6

ITD-102

Post Graduate Diploma in Computer Application Examination, 2018

PROGRAMMING AND PROBLEM SOLVING THROUGH 'C' LANGUAGE

Paper-II

Time Allowed : 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 पचास 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

UNIT - I

1. (i) What do you mean by algorithm ?
- (ii) What is flow chart ?

UNIT - II

- (iii) Define variable.
- (iv) What do you mean by constants.

UNIT - III

- (v) Define one dimensional array.
- (vi) What do you mean by return type.

UNIT - IV

- (vii) What do you mean by structure.
- (viii) Define pointer.

UNIT - V

(ix) Define linklist.

(x) What do you mean by writing onto a life.

PART-B

UNIT - I

2. Write an algorithm to find out the reverse digits on an integer. 7

3. Write an algorithm to check the inputted number is prime or not. 7

UNIT - II

4. Write down the syntax of if-else statement with giving a suitable example. 7

5. Write down the syntax of switch statement also give a suitable example of it. 7

UNIT - III

6. Write a program for deleting an element from the array of ten elements. 7
7. Differentiate call by value and call by reference with suitable example. 7

UNIT - IV

8. Give a suitable example of nested structure. 7
9. Differentiate function and pointer with suitable example. 7

UNIT - V

10. Write a program to create a linklist of 10 elements. 7

11. Write a program to write something in a file.

7

PART-C

UNIT - I

12. Write down an algorithm to find the largest number from an array also draw the flow chart of it.

5+5=10

UNIT - II

13. Explain various types of operators.

10

UNIT - III

14. Write a program for multiplication of two 3×3 matrices.

10

UNIT - IV

15. Give an example of pointer array by writing a program of it.

10

UNIT - V

16. Write a program to insert some elements in a link list also make the program of deleting the elements from the link list.

$$5+5=10$$