

**6252**

**M.Sc. (IT) I<sup>ST</sup> SEMESTER EXAMINATION, 2019**

**Paper – II**

**INTRODUCTION TO PROGRAMMING**

Time: Three Hours

Maximum Marks: 80

**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: 40]

*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) Give properties of Algorithm.
- (ii) Give various Testing Principles.
- (iii) What is C Token?
- (iv) What is Global Variable?
- (v) Define Static Storage Class.
- (vi) Give use of Comma operator.
- (vii) What is Self-referential structure?
- (viii) What is Dynamic Memory Allocation?
- (ix) Give attributes of File.
- (x) What is Random Access file?

## **PART – B**

### **UNIT -I**

- Q.2 Explain Insertion Sort.
- Q.3 Differentiate Linear & Binary Search.

### **UNIT -II**

- Q.4 Explain Go to statement with suitable example.
- Q.5 Differentiate While Loop & Do While Loop.

### **UNIT –III**

Q.6 Write program of factorial through Recursion.

Q.7 How Array is passed to function? Explain.

### **UNIT –IV**

Q.8 Explain Enumeration.

Q.9 Explain function of pointers with suitable example.

### **UNIT –V**

Q.10 Write a program to copy one file to another.

Q.11 Explain various read and write function for a file.

### **PART – C**

Q.12 Explain various factors used in analysis of Algorithm.

Q.13 Write a program to check whether year is Leap year or not.

Q.14 Write a program for Matrix Multiplication.

Q.15 Write short note-

(a) Pointer to Pointer

(b) Structure of Pointers

Q.16 Explain use of Command Line Argument with suitable example.

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