

CR-2519

**M. A./M. Sc. (Third Semester) Examination,
Nov.-Dec. 2018**

MATHEMATICS

Paper : First (Optional Group-VI) (I)

(Fundamental of Computer Science)

Time Allowed : Three hours

Maximum Marks : 25

Note : Attempt questions of all two sections as directed. Distribution of marks is given with sections.

Section-'A'

(Short Answer Type Questions) 5×2=10

Note : Attempt all five questions. Each question carries 02 marks.

[2]

Unit-I

1. Explain object oriented programming paradigm.

Or

Explain any two basic concepts of object oriented programming paradigm.

Unit-II

2. Explain variables with examples.

Or

Define implicit conversions.

Unit-III

3. Explain for statement with a suitable program.

Or

Write a program for while statement.

Unit-IV

4. Explain virtual function with example.

Or

Define friend function with suitable program.

Unit-V

[3]

5. Explain private member functions with example.

Or

Explain member function and given its general forms.

Section-'B'

(Long Answer Type Questions) 5×3=15

Note : Attempt all questions. Each question carries 03 marks.

Unit-I

6. Write down benefits and application of object oriented programming.

Or

Explain the following with example :

- (i) Data abstraction
- (ii) Inheritance
- (iii) Polymorphism

Unit-II

7. Explain identifiers and constants with example.

[4]

Or

Explain different data types with an examples.

Unit-III

8. Define operator overloading and write a suitable program.

Or

Explain with a suitable program :

- (i) The if statement
- (ii) The switch statement

Unit-IV

9. Define inline function and write a suitable program for it.

Or

Explain the following :

- (i) Function prototyping
- (ii) Call by reference
- (iii) Main function

Unit-V

10. Write a program bubble sort using class.

Or

Explain the following :

- (i) Arrays within a class
- (ii) Specifying a class
- (iii) Static member functions

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