

(b) Explain the different types of file mode. [3]

9. Write program in C++ for the following details : [8]

A file name ins.text contains information regarding name of the person who has insured, type of insurance and the amount of insurance. Use app mode to append data to the existing file.

----- x -----

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(4)

Question Paper Code : 3024

B.A./B.Sc. (Part-II) Examination, 2018

(New Syllabus)

COMPUTER APPLICATION

[Third Paper]

(Object Oriented Programming with C++)

Time : Three Hours]

[Maximum Marks : 50

Note : Answer **five** questions in all. Question **No.1** is **compulsory**. Besides this, attempt **one** question from each unit.

1. Write short notes on the following : [2x10=20]

(a) List the basic concepts of OPPs.

(b) What is Array ?

(c) What do you mean by this operator ?

(d) Explain scope resolution operator.

(e) What is copy constructor ? Give suitable example.

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(1)

[P.T.O.]

- (f) Write the need for exceptional handling in a programming language.
- (g) Describe the importance of destructors.
- (h) What is meant by an abstract class ? Why is it required ?
- (i) Explain the different types of file mode.
- (j) Define Exception handling.

UNIT-I

2. Describe the following programming paradigms : [7]

- (a) Procedural and structured programming
- (b) Object oriented

Give examples of languages that fit these paradigms.

3. Write a C++ program to perform addition of two matrices of size (nxn) and print it on screen and also discuss the concept of object and class using suitable example. [7]

UNIT-II

4. Write a program in C++ to store Ten Numbers (integers) and print them on screen and find largest and smallest element of an array. [7]

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- 5. (a) Write a C++ program to swap the numbers by using call by value and call by reference. [4]
- (b) Write short note on the following : [3]
 - (i) Operator overloading
 - (ii) `fprint ()` and `fscanf ()`

UNIT-III

6. (a) What is virtual function ? How do we declare a member function virtual ? [4]

(b) Write a C++ program to illustrate multiple inheritance. [4]

7. (a) List the characteristics of a constructor. Write a C++ program to define a suitable parameterized constructor with default values of the class airlines with data member flight-no., source, destination and fare and member function describe (). [5]

(b) Differentiate call by value Vs call by reference.[3]

UNIT-IV

8. (a) Define exception handling. Explain the uses of try, catch and throw for exception handling in C++ with suitable example. [5]

3024/200 (3) [P.T.O.]