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Mid-Term Examinations, April 2021

Programme	: B.Tech – Computer Science and Engineering	Semester	: Winter 2020-2021
Course	: Object Oriented Programming with C++	Code	: CSE2001
Faculty	: Dr. R Thilagavathy	Slot/Class No.	: B21+B22+B23/0291
Time	: 1½ hours	Max. Marks	: 50

Answer all the Questions

Q. No.	Question Description	Marks
1	Explain the mechanism for exception handling? When do we need multiple catch blocks for a single try block? Give an example?	10
2	A company consists of departments. Departments are located in one or more offices. One of the office acts as a headquarter. Each department has a manager who is recruited from the set of employees. Your task is to model the system for the company. Task: Draw a class diagram which consists of all the classes in your system their attributes and operations, relationships between the classes, multiplicity specifications, and other model elements that you find appropriate.	10
3	Write a C++ program to display number of objects created using static member.	5
4	Explain the importance of friend function with suitable example.	5
5	Define a structure that represents Fruit with properties fruit name, fruit type, fruit colour. Write a program that accepts data of four fruits and displays the results.	10
6	Write the member function to overload the < operator. Use the standard < operator to compare the weight data member of the ZooAnimal object with other Z00Animal Object. Finally display the name of the animal which has highest weight.	

```
class ZooAnimal
{
private:
    char *name;
    int cageNumber;
    int weight;
public:
    ...
    bool operator < (int);
    ...
};
```

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