

## केन्द्रीय जनजातीय विनवविद्यालय आन्ध्रप्रदेश Central Tribai University of Andhra Pradesh

(A Central University Established by an act of Parliament)

## II midterm Examinations SEMESTER - III

Subject: Object oriented Programming using C++

**Subject Code: BAI2021** 

Program of Study: B.Sc.(A.I.) 2<sup>ND</sup> Year 1<sup>st</sup> Semester

Answer all the questions. Each Carries 1 mark.

1 M x5=5

- 1. What is the output of the following program? #include <iostream> #include <string> using namespace std; class A int a, b; float d; public: void change(int i){ a = i; void value\_of\_a(){ cout<<a; class B: private A int main(int argc, char const \*argv[]) Bb; cout<<sizeof(B);
- 2. Ambiguity Resolution in Inheritance?

return 0;

}

3. Observer and identify the error in the given C++ program: #include <iostream> using namespace std; double division(int a, int b) {  $if(b == 0) {$ 



```
throw "Division by zero condition!";
}
return (a/b);
}
int main () {
  int x = 50;
  int y = 0;
  double z = 0;
  try {
  z = division(x, y);
  cout << z << endl;
  } catch (const char* msg) {
  cerr << msg << endl;
  }
}

4. Name some throw built-in exception types?

5. What is diamond problem in C++?

Part-B
```

Answer either A or B short answer question. Question carries 5 marks 5 M x1=5

6 A). How to perform Error handling during file operations in C++?

B). Explain in detail about the C++ Standard Exceptions and it's hierarchy?

## Part-C

Answer either A or B long answer question. Question carries 10 marks 10 M  $\times 1=10$ 

7 A) Briefly demonstrate about the various types of Inheritance in C++ with suitable example for each?

(OR)

B). Write the following programs in C++?

i) Program to Access the Private Members of the Base Class in Derived Class A program on how to define C++ User-Defined Exceptions in C++?