

B.E/ B.Tech (full time) DEGREE END SEMESSTER EXAMINATION , NOV / DEC 2012

GEOINFORMATICS ENGINEERING BRANCH

FOURTH SEMESTER

GM 9253 OBJECT ORIENTED PROGRAMMING

TIME : 3 HRS

Max. Mark : 100

Part A (10 X 2 = 20)

1. What is object modeling? Site an example.
2. Illustrate use of principle of abstraction in information extraction from Rs images.
3. What are reserved identifiers and List any four?
4. What are the scope and limitations of operator overloading in C++?
5. Reference Vs. pointer – make a note.
6. Describe the role of destructors in C++.
7. Describe the relation between member function and the class .
8. List four common rules for error handling?
9. What are data access object design patterns?
10. illustrate the scope of C++ facilities in vector data handling?

Part B (5 X 16 = 80)

11. i) Tabulate neatly the behavior of boolean operation with every possible combination of bits. (8)
ii) Explain 4 control statements with examples. (8)
12. a. What are the different datatypes used in C++ and explain their application
(OR)
b. Implement translation transformation of a 3-dimensional object with C++
13. a. Describe the derived classes and make a programme to explain its application in RS datasets.
(OR)
b. Write a routine to explain the inheritance and polymorphism .
14. a. Write a C++ program to classify an image with nearest neighborhood and MLC.
(OR)
b. Write a C++ program to classify an image with C- cluster and Fuzzy partitions. .
15. a. i) Defend the use of ODBC to handle GIs dataset with suitable examples.
(OR)
b. Make a comparative analysis of relational and object based data models to represent and analyze the Rs and GIS related analysis.