GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV • EXAMINATION – SUMMER • 2014

| DE - SEMESTER IV EXAMINATION SOMMER 2014 | | | |
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| Subject Code: 140704 Date: 25-06-2014 | | | |
| Subject Name: Object Oriented Concepts and Programming Time: 10:30 am - 01:00 pm Total Marks: 70 Instructions: | | | |
| | 2 | Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. | |
| Q.1 | (a) (b) | Explain the basic characteristics of object oriented programming.Answer Following: Explain Inline function.Explain function overloading. | 07 07 |
| Q.2 | (a) (b) | Explain constructor and destructor with examples. Explain function modeling with example. OR | 07 07 |
| | (b) | Answer following :1. Aggregation v/s Generalization.2. Draw functional model for ATM. | 07 |
| Q.3 | (a) (b) | Explain Dynamic modeling with Example. What is pure virtual function? And explain abstract class with Example. OR | 07 07 |
| Q.3 | (a) (b) | Explain link and association and multiplicity with example. Explain friend function with example. | 07 07 |
| Q.4 | (a) | What is type conversion? Explain the type conversion from basic type to class type and from class type to basic type with examples. | 07 |
| | (b) | Write a program to overload binary operators + (plus), - (minus). OR | 07 |
| Q.4 | (a) (b) | Define Inheritance. Explain different types of Inheritance. Write a program to overload unary operators ++ (increment), (decrement), | 07 07 |
| Q.5 | (a) (b) | Define class and draw class model of windowing system. Write a program to swap two integers by creating swap function using call by reference. | 07 07 |
| Q.5 | (a) (b) | OR Draw data flow diagram for library management system. Write a program to add private members variables of two classes using friend function. | 07 07 |
