BINT 0221: OBJECT ORIENTED ANALYSIS AND DESIGN

1. Answers Question ONE and any other THREE Questions.

QUESTION ONE
a. Describe the term Object Oriented Analysis and Design.   [3marks]
b. State four advantages of object oriented programming.   [4marks]
c. State three basic building blocks of UML?   [3marks]
d. Describe three cardinality ratios of association between objects. [4marks]

e. What is a use case diagram?   [3marks]

f. Briefly describe the term polymorphism as used in OOAD.[3marks]
g. Describe the following terms as used in OOAD.   [5marks]
   o Public
   o Private
   o Protected

QUESTION TWO
a) Define the following terms as used on OOAD?
   i. Attribute   [2marks]
   ii. Use case   [2marks]
   iii. Class   [2marks]
   a. List and briefly explain the four unified phases of system Design.
      [5marks]
   b. Using a use case diagram, model interaction behavior between a user and an ATM machine?   [4marks]

QUESTION THREE
   a) Define the following objects as used in Use Case diagram?
      o Actors   [2marks]
      o Data store   [2marks]
   b) Explain the following elements of object oriented programming?
      o Inheritance   [2marks]
      o Polymorphism   [2marks]
   c) List four unified phases of system design?   [7marks]

QUESTION FOUR
   a. State two advantages of UML?   [3marks]

   b. What is an object oriented system?   [2marks]

   c. Explain the following terms as used in unified modeling Language?

      i.   Use case diagram   [2marks]
      ii.   Activity diagram   [3marks]
      iii. Component diagram   [3marks]
      iv.   Object diagram   [2marks]

QUESTION FIVE(Refer TO CHANGES ON THE HARDCOPY MODERATED EXAM DRAFT