Total No. of Questions :4]

SEAT No. : ____

P1785

[Total No. of Pages : 2

[5233]-12
M.Sc.
COMPUTER SCIENCE
CS - 102 : Object Oriented Software Engineering.
(2008 Pattern) (Old Pattern) (Semester - I)

Time : 3 Hours] ***[Max. Marks : 80***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to the right indicate full marks.***
3) ***Neat diagrams must be drawn wherever necessary.***

Q1) Attempt all of the following: **[8×2=16]**

a) Define Link attribute.

b) What are three kinds of building blocks of UML?

c) Give two standard stereotypes that apply to components?

d) What is association and state its role.

e) What do you mean by recursive aggregation?

f) What are abstract classes?

g) What is meant by tagged values?

h) Differentiate between generalization and aggregation.

Q2) Attempt any four of the following. **[4×4=16]**

a) Write a note on Inception and requirement understanding.

b) What is importance of system Design?

c) Explain grouping elements of UML.

d) Write a short note on white box testing.

e) Explain the component of sequence diagram.

P.T.O.

Q3) Attempt any four of the following. **[4×8=32]**

a) Consider on " Online money transfer system", which allows customer to perform various transactions. Discuss different scenario and draw sequence diagram.

b) Prepare a class diagram for Hospital management system. Consider at least three classes. Define appropriate relationship, association with multiplicity

c) Draw use case diagram for online Railway reservation.

d) Draw activity diagram for University Examination form filling.

e) Draw state chart diagram for automated vending machine for tea/coffee. select option coffee/ Tea/ milk and get appropriate amount of coffee/tea/ milk.

Q4) Attempt any four of the following. **[4×4=16]**

a) Write a note on Object oriented Analysis.

b) Give any five activities and artifact considered in inception.

c) Explain the process of forward engineering for the use case diagram.

d) What is an agile process?

e) Define U.M.L Explain the advantages of U.M.L.