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Total Number of Pages: 1

MCA
MCC502

5th Semester Regular/Back Examination – 2015-16
OBJECT ORIENTED ANALYSIS AND DESIGN WITH UML

BRANCH(S): MCA

Time: 3 Hours

Max Marks: 70

Q.CODE:T265

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions: (2 x 10)
- a) What are bags & sequence explain it with example?
 - b) What is qualified association? Explain briefly?
 - c) Explain 'Extend' and 'Include' in use cases?
 - d) What is multiplicity?
 - e) What is signal generalization?
 - f) State the difference between state, sequence and interaction modeling?
 - g) Name two advantages to visualize use case?
 - h) Explain N-ary association with diagram?
 - i) Compare OOA & OOD ?
 - j) What do you mean by patterns and partitions?
- Q2 Discuss the phases of Rumbaugh OMT model? What do you mean by association end? Explain its properties? (10)
- Q3 Explain the different steps involved in class design? Identify the difference between sequence diagram & collaboration diagram? Explain with example? (10)
- Q4 a) What are two kinds of sequence model? Draw sequence diagram for bank management system? (5)
- b) Draw a state diagram for telephone line? (5)
- Q5 a) Explain steps to construct a domain state model? (5)
- b) Explain different software control strategy can be adopted from system? (5)
- Q6 a) Explain the steps to design algorithm for each operation in a system? (5)
- b) Discuss common uses of implementation diagram? (5)
- Q7 a) Draw an activity diagram for account class in cash withdrawal method? (5)
- b) What is testing of software? What type of testing should you do to enhance the quality of software? (5)
- Q8 Write Short Notes (Any Two) (5 x 2)
- a) Reusability of software
 - b) Object oriented testing
 - c) Indexes in database
 - d) Interactive interface