

Q.P. Code : 812001

(3 Hours)

[Total Marks : 80

- N.B. :** (1) Question number 1 is compulsory.
 (2) **Attempt** any **three** questions out of the remaining five questions.
 (3) Assume suitable data.

1. Design Domain-Specific Software Architecture (OSSA) for online shopping website Management System. Assume suitable entities, attributes etc. Domain Model must consists following :- 20
 - a) Domain Dictionary and Information Model.
 - b) Feature Model and Operational Model.
2.
 - a) Define Architectural analysis. Discuss various analysis types with an example. 10
 - b) Define the following terminology :- 10
 - 1) Component
 - 2) Configuration
 - 3) Ambiguity
 - 4) Architectural Pattern
 - 5) Precision
3.
 - a) Discuss Service-Oriented Architecture (SOA) and Web Service. 10
 - b) Explain with an example Software System Mobility and Architecture. 10
4.
 - a) Explain the distributed object style in connection with CORBA middleware. 10
 - b) What is C2 style? Explain its architecture. 10
5.
 - a) Discuss frameworks for the Pipe-and-Filter Architectural Style. 10
 - b) Discuss Elements of the Architectural Style. 10
6. Write short notes on the following. 20
 - a) Peer-to-Peer style.
 - b) Challenges in Migrating Code.
 - c) System Stakeholders.
 - d) Simulation-Based Analysis.
