

12/3/2015

B. N. Bandodkar College of Science, Thane
S. Y. B. Sc. Semester IV Examination, March 2015
Course Code: USCS403

Duration: 02.30 Hrs

Total Marks: 75

Q.1 Answer the following:

- a. Explain Software development life cycle with the help of neat diagram. 08

OR

- a. Write down advantages and disadvantages of spiral and RAD model 08
b. Explain waterfall and Incremental model for software development. 07

OR

- b. Explain fourth generation techniques for software development. 07
c. What is software? Explain types of software. 05

OR

- c. Explain software quality factors 05

Q.2 Answer the following:

- a. Write notes on i. Use Case Diagram ii. Class Diagram 08

OR

- a. Explain collaboration diagram, state transition diagram and state chart diagram 08
b. Discuss in detail conceptual modeling. 07

OR

- b. Explain software requirements specification 07
c. **Briefly explain** logic modeling 05

OR

- c. How to produce process map 05

Q.3 Answer the following:

- a. Explain software design process. 08

OR

- a. Explain problem partitioning in SE. 08
b. Briefly explain component diagram. 07

OR

- b. Explain Package and deployment diagram 07
c. Explain characteristics of good interfaces 05

OR

- c. Explain object oriented programming concept 05

Q.4 Answer any THREE of the following:

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- a. Explain Project feasibility study
b. What is software engineering and explain advantages of SE
c. Explain Data flow diagram and flowcharts
d. Explain ER Diagram with example
e. Explain Object relational database
f. Explain UML activity diagram

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