

# B. N. BANDODKAR COLLEGE OF SCIENCE, THANE

S.Y.B.Sc. (INFORMATION TECHNOLOGY) SEMESTER – IV EXAMINATION; APRIL  
2015

COURSE CODE– USIT401

**Duration: 2½ Hrs**

**Marks: 75**

**Total**

**N.B. 1. All questions are compulsory.**

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|-------------|--|-----------|
| <b>Q. 1</b> | <b>Answer any two out of following</b>                                       | <b>10</b> |
|             | a What is Software Engineering? What is software process?                    |           |
|             | b Short note:- Socio-technical system  |           |
|             | c Explain the essential characteristics of socio-technical systems?          |           |
|             | d Explain the software engineering methods                                   |           |
| <b>Q. 2</b> | <b>Answer any two out of following</b>                                       | <b>10</b> |
|             | a Short note on :- Project Management  |           |
|             | b Explain the requirement of project planning in software engineering        |           |
|             | c Define the concept of project scheduling & its team work.                  |           |
|             | d Short note on :-Risk Management  |           |
| <b>Q. 3</b> | <b>Answer any two out of following</b>                                       | <b>10</b> |
|             | a Short note on :-Requirements for validations                               |           |
|             | b Explain the requirements for developing project management?                |           |
|             | c Explain system models & its requirement in software engineering?           |           |
|             | d Explain the concept of Behavioral Models with diagram                      |           |
| <b>Q. 4</b> | <b>Answer any two out of following</b>                                       | <b>10</b> |
|             | a Explain the concept of objects & object classes?                           |           |
|             | b Differentiate between an object oriented design process & design evolution |           |
|             | c Define user Interface Design.  |           |
|             | d Explain the need of user Interface Design in software engineering?         |           |
| <b>Q. 5</b> | <b>Answer any two out of following</b>                                       | <b>10</b> |
|             | a Explain the concept of software cost estimation                            |           |
|             | b Explain the concept of estimation techniques?                              |           |
|             | c Short note on :- Algorithm cost modeling                                   |           |
|             | d Write down the concept of project Duration & staffing                      |           |
| <b>Q. 6</b> | <b>Answer any two out of following</b>                                       | <b>10</b> |
|             | a Explain how to develop process improvement in software engineering?        |           |
|             | b Short note on :- Process Measurement                                       |           |
|             | c How to develop project quality with process analysis & modeling            |           |

- Q. 7**      **d** Short note on :CMMI
- Answer any three out of following**
- a** Explain the different types of Attributes of good software?
  - b** Explain the different software process models?
  - c** Explain Short note on:- Requirement for engineering process.
  - d** Explain the concept of Transaction processing systems?
  - e** Explain the importance of Software Inspection?
  - f** Short note on :-Quality Control

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