

B. N. BANDODKAR COLLEGE OF SCIENCE, THANE
S. Y. B. SC. (INFORMATION TECHNOLOGY) SEMESTER – IV ADDITIONAL EXAMINATION; JUNE
2015
COURSE CODE– USIT401

Duration: 2½ Hrs

Marks: 75

Total

N.B. 1. All questions are compulsory.

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| Q. 1 | Answer <i>any two</i> out of following | 10 |
| | a What is Software Engineering? | |
| | b Define what is software? | |
| | c Short note on :- Software Process. | |
| | d Define SDLC. | |
| Q. 2 | Answer <i>any two</i> out of following | 10 |
| | a Differentiate between functional & non-functional requirement. | |
| | b List out the user requirement & explain them while project development. | |
| | c Explain the concept of system requirements in software engineering. | |
| | d Explain the importance of documentation of software requirements. | |
| Q. 3 | Answer <i>any two</i> out of following | 10 |
| | a Write down the difference between object models & data models | |
| | b Explain the importance of Architectural Design in software engineering | |
| | c Why it is important to take the reference of different architectures while developing the project models | |
| | d Write down the difference between Requirements & validations. | |
| Q. 4 | Answer <i>any two</i> out of following | 10 |
| | a Short note on :- User Interface Design. | |
| | b Explain the importance of user analysis on his project development. | |
| | c Define Rapid Software Development concept. | |
| | d Short note on :-Software Prototyping. | |
| Q. 5 | Answer <i>any two</i> out of following | 10 |
| | a Explain Algorithmic cost modeling. | |
| | b How to improve the software productivity. | |
| | c Explain the concept of component models in software engineering. | |
| | d How to develop project planning | |
| Q. 6 | Answer <i>any two</i> out of following | 10 |
| | a Explain the concept of Risk Management. | |
| | b How to provide security for software developed design. | |
| | c Short note on:- Services as reusable components. | |

Q. 7 **d** How to give development for project with software services.
 Answer any three out of following

15

- a** Short note:- Socio-technical system.
- b** Explain the requirement of project planning in software engineering.
- c** Explain system models & its requirement in software engineering.
- d** Define user Interface Design.
- e** Explain the concept of software cost estimation.
- f** Short note on : CMMI.

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