ADITYA ENGINEERING COLLEGE(A)

SOFTWARE ENGINEERING – IMPORTANT QUESTIONS FOR SESSIONALS

Unit-1

1.Explain the challenges faced in software engineering?

2.What is the use of software development process models? Explain

3.Explain about evaluation of software engineering methodologies

4. Explain the key features of the software process models with suitable examples.

5. Explain how the principles underlying agile methods lead to the accelerated development and deployment of software.

6.Explain the unique nature of Webapps

7.Explain Software Myths in detail?

8.Explain different process models in detail?

9.Differentiate 1.RUP & Agile Process Model 2.Incremental Vs Spiral Process model?

Unit 2

1.Explain Project Management Essentials in detail?

2.Explain Software configuration management with help of neat diagram?

3.Summarize Risk Management ?

4.Explain Project Planning Activities .

5.Explain Software metrics and Measurement in detail.

6.Illustrate Project Size Estimation & Effort Estimation Techniques.

Unit 3

1.Differentiate data-oriented requirements analysis and object-oriented requirement analysis.

2.Perform prototype analysis on "railway reservation" software.

3.What are software requirements? How to analyze the requirements?

4.What is requirement engineering? State its process and explain requirements elicitation

5.Draw an ER and DFD diagram for Library information System.

6.Explain functional and non-functional requirements.

7.Explain the following : Requirements Specification, Requirements Validation,

Requirements management

Unit 4

1.Briefly Explain Software design process and its principles.

2.Explain about conducting component level design.

3.Write short notes on structured design methodologies

4.Explain the Characteristics of Good Software Design.

5.Explain the importance and benefits of Software Architecture

6.Explain the i)coding principles, ii)coding process, iii)code verification iv) documentation

Unit 5

1.Write about

     (i) Black box testing.   (ii) Regression testing.

     (iii) White box testing   (iv) Integration testing.

2. Explain Levels of testing

3. Explain the testing objectives and its principles

4. Explain Software Quality factors

5. Explain verification and validation of software

6.Explain CMM model

7. Explain Software Reliability.

8. Explain Debugging Approaches