

# Question Bank for S.E

PAGE No.	
DATE	

## chapter No-1

- Imp  
Q.1 Explain software Engineering as a layered technology approach
- Imp  
Q.2 Explain water fall model with help of diagram. Write four drawbacks.
- Q.3 Explain spiral process model with help of diagram, write advantages over other models?
- Q.4 Explain different levels of capability maturity model integration technique.
- Q.5 Explain RAD model with adv & disadvantages?
- Q.6 What do you mean by process framework? explain with suitable diagram?
- ~~Q.7 Explain software engineering as layered approach~~
- Q.7 Explain Evolving role & changing nature of software.
- Q.8 Explain the software Engineering set of frameworks & activities.
- Q.9 Difference bet<sup>n</sup> waterfall & incremental Model.
- Q.10 Describe Personal software process (PSP) model.

## Compulsory Chapt - No. 2

- Q.1 What are the core principles of software engineering? explain.
- Q.2 Explain seven major task of Requirement Engineering?
- Q.3 Describe behavioural model?
- Q.4 With reference to data modeling explain following terms  
① Data objects ② Data attributes ③ cardinality  
④ Relationship.
- Q.5 What is DFD? Explain level 1 DFD with suitable example.  
Level 0 with suitable example?
- Q.6 Write difference between cardinality & modality?
- Q.7 Explain pattern based software design in brief.
- Q.8 What is object oriented analysis? describe importance?
- Q.9 Explain analysis modeling principle?

- 10) With reference to data oriented design explain  
① abstraction ② Modularity.
- 11) Explain term objects, classes, messages, instances.
- 12) Enlist elements of design model.
- 13) Write importance of analysis modelling.
- 14) Explain deployment principle.
- 15) For hotel management system, draw Level 0 & Level 1 DFD.
- 16) What are the modelling practices in software Engg. explain principles.
- 17) Explain state transition diagram in details.
- 18) Describe communication practices & it's principle.
- 19) For library management system draw level 0 & 1 DFD.
- 20) Explain the Rumbaugh method.

TIP for 2<sup>nd</sup> chapter.

- 1) Q 1, 2, 4 are compulsory.
- 2) ~~Q~~ Compulsory question on Modelling practices either on design or analysis.
- 3) Compulsory Q on DFD 0, 1 or Either one example.

## Chapter No. 3

- Q. 1 short note on "System Testing"
- Q. 2 Explain the term Debugging. Explain different debugging approaches in detail.
- Q. 3 Explain following terms
  - i) Regression Testing
  - ii) Smoke Testing
- Q. 4 Explain the following integration testing methods [compare]
  - i) Top-Down integration
  - ii) Bottom-up integration.
- Q. 5 Describe the unit testing in brief.
- Q. 6 Explain following term -
  - (a) Integration Test-
  - (b) Regression testing.
- Q. 7 Explain black box testing.
- Q. 8 List four objective of testing.
- Q. 9 What is alpha & Beta testing differentiat.
- Q. 10 Why stress & performance testing is necessary
- Q. 11 Enlist guidelines those leads to a successful S/W testing strategy.
- Q. 12 Explain testing Generic characteristics.
- Q. 13 Describe basic principle of testing.
- Q. 14 <sup>Explicitly</sup> validation testing using alpha & beta testing.

Q. No. 2, 3 are compulsory

## Compulsory Chapter No. 4.

- Q. 1 Explain software project scheduling. What are the different principles of S/W project scheduling?
- Q. 2 Explain SCM with SCM scenario.
- Q. 3 Explain reactive versus proactive risk strategies with respect to Risk management?
- Q. 4 Explain project management spectrum?
- Q. 5 Describe process decomposition?
- Q. 6 What is SCM repository & process?
- Q. 7 What is task network & explain with suitable example.

- 8) Describe clean room software development methodology (major task)
- 9) why software project fails?
- 10) principles of risk management?
- 11) Describe RMMM plan.
- 12) What is risk management?
- 13) Explain Change management.
- 14) What is task network? How it helps software design?
- 15) What is formal method
- 16) What are the risk projection activity? explain in brief
- 17) Explain type of Risks
- 18) Explain features of SCM.
- 19) Explain following term with respect to risk mgt.
  - i) Risk refinement
  - ii) Risk monitoring

Q12 Types: Question No 1, 2, 4, 5, 6, 8, 15

Compulsory Chapter No. 5

- Q-1 Describe Cocomo & cocomoII model?
- Q-2 Describe the activities of SQA
- Q-3 Explain Mc call's quality factor.
- Q-4 Describe Six Sigma for SW Engineering.
- Q-5 Describe ISO 9000 quality standard.
- Q-6 What is quality control? explain.
- Q-7 Explain decomposition techniques
- Q-8 What is make/buy design?
- Q-9 How do you define SW safety? List the analysis technique
- Q-10 What are the steps are required to perform Statistical SQA?
- Q-11 What is quality? How do you explain User Satisfaction?

Q 1, 2, 3, 4, 6, 7, 8, compulsory.

- 8) Describe clean room software development methodology (major task)
- 9) why software project fails?
- 10) principles of risk management?
- 11) describe RMMM plan.
- 12) what is risk management?
- 13) Explain change management.
- 14) what is task network? How it helps software design?
- 15) what is formal method
- 16) what are the risk projection activity? explain in brief
- 17) Explain type of Risks
- 18) Explain features of scm.
- 19) Explain following term with respect to risk mgt.
  - i) Risk refinement
  - ii) Risk monitoring

Q12 Types: Question No 1, 2, 4, 5, 6, 8, 15

Compulsory Chapter No. 5

- Q-1 Describe Cocomo & cocomoII model?
- Q-2 Describe the activities of SQA
- Q-3 Explain Mc call's quality factor.
- Q-4 Describe Six Sigma for SW Engineering.
- Q-5 Describe ISO 9000 quality standard
- Q-6 What is quality control? explain
- Q-7 Explain decomposition techniques
- Q-8 What is make/buy design?
- Q-9 How do you define SW safety? List the analysis technique
- Q-10 What are the steps are required to perform statistical SQA?
- Q-11 What is quality? How do you explain User Satisfaction?

Q 1, 2, 3, 4, 6, 7, 8, compulsory.