

Time: 2½ hrs.

Marks:75

- Note:**
1. All questions are compulsory with internal choice.
 2. Draw neat diagrams wherever necessary.
 3. Figures to the right indicate full marks.

- Q.1 Answer the following (any four) (20)**
- (a) Give and explain any 5 characteristics of SRS?
 - (b) What is an Use Case? Explain Use case Analysis.
 - (c) Explain the Software application domain.
 - (d) Write a note on : Prototyping Model.
 - (e) Explain the Incremental Process Model.
 - (f) What is an activity diagram?
- Q.2 Answer the following (any four) (20)**
- (a) Explain the Architectural Design Decisions.
 - (b) Differentiate between Coupling and Cohesion.
 - (c) Explain COCOMO model.
 - (d) Explain Time – Line Chart.
 - (e) What are the graphical models of the system present different perspectives on the architecture?
 - (f) What are the Key features of Design Specification?
- Q.3 Answer the following (any four) (20)**
- (a) Explain Software risks.
 - (b) Write a note on Six Sigma.
 - (c) Describe the SQA actions to achieve a set of pragmatic goals.
 - (d) What is White box and Black box testing?
 - (e) Write a note on Risk Refinement.
 - (f) Explain any 5 Elements of SQA.
- Q.4 Answer the following (any five) (15)**
- (a) Define : (i) Cardinality (ii) Aggregation
 - (b) Explain Requirement Engineering – Elicitation.
 - (c) What is Effort Distribution?
 - (d) Give and explain any 6 Project Monitoring & Controlling process.
 - (e) What are three different types of the test plan?
 - (f) What are the set of testing principles that have been adapted for use?

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