

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) Explain : CMM - Capability Maturity Model
 - (e) Explain the SDLC Model.
 - (f) What are the life cycle phases in Rational Unified Process(RUP)?
- Q.2 Answer the following (any four) (20)**
- (a) Explain the Architectural Design Decisions.
 - (b) What are the basic principles guide software project scheduling?
 - (c) Explain COCOMO model.
 - (d) Explain Time - Line Chart.
 - (e) Difference Between Function Oriented and Object Oriented Design.
 - (f) What are the Key features of Design Specification?
- Q.3 Answer the following (any four) (20)**
- (a) Explain Risk Identification.
 - (b) Write a note on Six Sigma.
 - (c) Describe the SQA actions to achieve a set of pragmatic goals.
 - (d) Explain the following testing
 - i. System Testing
 - ii. Accetance Testing
 - (e) How is RMMM plan divided? Explain each.
 - (f) Explain any 5 Elements of SQA.
- Q.4 Answer the following (any three) (15)**
- (a) Define : (i) Cardinality (ii) Aggregation
 - (b) Explain Requirement Engineering - Elicitation.
 - (c) What is Verification and Validation?
 - (d) Give and explain any 3 Project Monitoring & Controlling process.
 - (e) What are the advantages of classical waterfall model?
 - (f) What are the set of testing principles that have been adapted for use?