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3 Hours/100 Marks

Seat No.

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- Instructions:** (1) **All questions are compulsory.**
(2) **Illustrate your answers with neat sketches wherever necessary.**
(3) **Figures to the right indicate full marks.**
(4) **Assume suitable data, if necessary.**
(5) **Use of Non-programmable Electronic Pocket Calculator is permissible.**
(6) **Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.**
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MARKS

1. A) Attempt **any three**. **12**
- a) Write a note on current trends of software development.
 - b) Explain testing strategy for object oriented architecture.
 - c) State four causes of failed software projects.
 - d) Briefly explain ISO 9001 : 2000 software quality standards.
- B) Attempt **any one**. **6**
- a) State and describe six communication principles.
 - b) Describe seven distinct functions of requirement engineering.
2. Attempt **any four**. **16**
- a) Describe a simple DFD for cash withdrawal by an account holder from Savings Bank.
 - b) State and describe any four characteristics of a testable software.
 - c) State decomposition technique and list its types. Explain one type in detail.
 - d) Describe the failure curve for software and list any four software characteristics.
 - e) What is the meaning of planning ? State four planning principles.
 - f) Describe in brief four level testing process in test execution.

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3. Attempt **any four**. **16**
- a) State any four sources of Change in change Management.
 - b) Describe smoke testing.
 - c) Describe relationship between effort and delivery time using a graph in project scheduling.
 - d) Enlist four recommended guidelines to avoid schedule failure.
 - e) Describe SQA and activities involved.
4. A) Attempt **any three**. **12**
- a) Describe software estimation.
 - b) What is meant by automated debugging ? How it assists in isolating software errors ?
 - c) Describe the waterfall model of process development.
 - d) Differentiate any four points differentiate between Black box and White box testing.
- B) Attempt **any one**. **6**
- a) Describe CMMI technique.
 - b) Explain personal software process model.
5. Attempt **any two**. **16**
- a) Describe the steps in developing an activity diagram with an example.
 - b) Describe project risks, technical risks and business risks.
 - c) What is evolutionary process model and describe any one model.
6. Attempt **any four**. **16**
- a) Describe Top-down integration testing.
 - b) Describe with an examples generic and customised software.
 - c) Describe the process used for assessing Risk Impact.
 - d) State and give the meaning of four McCall's quality factors.
 - e) Justify why testing is also termed as a quality control measure.
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