

12175

11122

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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. a) Attempt any **THREE** of the following: **12**
- (i) What is software? What are its characteristics?
- (ii) Define software testing. What do you mean by a good test and successful test.
- (iii) What is project scheduling and tracking?
- (iv) What is software reliability and software availability? Explain in brief.
- b) Attempt any **ONE** of the following: **6**
- (i) What is RE? (Requirement Engineering) What is its need? What are different subtasks included in it?
- (ii) Explain DFD with example?

P.T.O.

- 2. Attempt any FOUR of the following:** **16**
- a) What are different analysis modeling approaches and explain them in brief.
 - b) What do you mean by testing strategy? What is test plan, test case and test data? Explain with example.
 - c) Explain six sigma strategy.
 - d) Explain the utility of incremental model.
 - e) What are communication principles. Explain their meaning.
 - f) What are different types of testing? What is their purpose.
- 3. Attempt any FOUR of the following:** **16**
- a) Explain CPM. How is it different from PERT ?
 - b) Explain software verification and validation.
 - c) What do you mean by software risk? What are reactive and proactive risk strategies?
 - d) What are the principles used for project scheduling and explain their meaning.
 - e) Explain different decomposition techniques.
- 4. a) Attempt any THREE of the following:** **12**
- (i) Explain COCOMO II Model.
 - (ii) Explain different approaches of integration testing.
 - (iii) What are different data design elements and architectural design elements?
 - (iv) Compare White-Box and Black-Box testing.

- b) Attempt any **ONE** of the following: 6
- (i) Explain CMMI.
 - (ii) Explain waterfall model with diagram.
5. Attempt any **TWO** of the following: 16
- a) Explain analysis modeling and design modeling in brief.
 - b) Explain RMMM strategy in detail.
 - c) Explain evolutionary process models.
6. Attempt any **FOUR** of the following: 16
- a) Explain alpha and beta testing. What is the difference between the two.
 - b) What are PSP and TSP framework activities? Explain their meaning.
 - c) What is SCM? What is its need? What are its features?
 - d) Write in brief on ISO 9000 quality standard.
 - e) What are different debugging strategies? Explain any one in brief?
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