

17513

16172

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.
- (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following:** **20**
- a) What is software? What is embedded software?
- b) Explain the term scrum.
- c) List core principle of Software Engineering.
- d) Write importance of analysis modelling.
- e) List various testing characteristics.
- f) What is change control?
- g) List various activities of SQA.

P.T.O.

- 2. Attempt any FOUR of the following:** **16**
- a) What is quality control?
 - b) Explain following terms w.r.t. risk management:
 - (i) Risk identification
 - (ii) Risk analysis
 - c) Describe debugging process.
 - d) Compare cardinality and modality.
 - e) Explain essence of practice.
 - f) What do you mean by process framework? Explain with suitable diagram.
- 3. Attempt any FOUR of the following:** **16**
- a) Explain software engineering as a layered approach.
 - b) Explain following requirements engineering tasks:
 - (i) Negotiation
 - (ii) Specification
 - c) What is DFD? Explain its symbol.
 - d) How can project scheduling affect integration testing?
 - e) What is the concept of task network?
 - f) Explain SCM in short.
- 4. Attempt any FOUR of the following:** **16**
- a) Give possible reasons of why software is delivered late.
 - b) Explain test case design in detail.
 - c) Explain scenario based modeling in detail.
 - d) What is meant by software deployment?
 - e) What is SRS?
 - f) What is agile process?

- 5. Attempt any TWO of the following:** **16**
- a) Explain RAD model with its advantages and disadvantages.
 - b) Describe in detail eight principles of good planning.
 - c) What is philosophy of six sigma? Explain six sigma strategies.
- 6. Attempt any FOUR of the following:** **16**
- a) Write meaning of PERT and CPM.
 - b) Explain the steps of bottom up integration.
 - c) List the objective of black box testing.
 - d) For library management system draw level 0 and level 1 DFD.
 - e) What are the characteristics of good design.
 - f) State advantages of PSP and TSP.
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