

17513

11920

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) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall

Marks

- 1. Answer any FIVE of the following: **20****
- a) Describe changing nature of software.
 - b) What is extreme programming?
 - c) Describe any two core principles of software engineering.
 - d) What are different data design elements.
 - e) Differentiate between validation and verification.
 - f) Give possible reasons of why software is delivered late.
 - g) What is software reliability?

P.T.O.

- 2. Answer any FOUR of the following:** **16**
- a) List characteristics of software.
 - b) Explain behavioral model
 - c) What is an object oriented analysis?
 - d) Enlist guidelines those leads to a successful software testing strategy.
 - e) Describe SCM repository.
 - f) State and explain SQA activities.
- 3. Answer any FOUR of the following:** **16**
- a) Explain McCall's quality factor?
 - b) What are reactive and proactive risk strategies?
 - c) Why stress and performance testing is necessary?
 - d) Compare cardinality and modality.
 - e) Explain seven major tasks of requirement engineering
 - f) Explain software development process umbrella activities.
- 4. Answer any FOUR of the following:** **16**
- a) Describe software engineering as a layered technology.
 - b) Explain development principles.
 - c) Describe data objects and data attributes.
 - d) Explain Brute Force approaches used as debugging strategies.
 - e) Explain CPM
 - f) What is quality control?

5. Answer any FOUR of the following:**16**

- a) How effort distribution is done?
- b) Describe RMMM plan.
- c) Explain unit testing in detail.
- d) Development DFD for sales order processing of a departmental store
- e) Explain four principles of analysis modelling
- f) Explain RAD model with neat diagram.

6. Answer any FOUR of the following:**16**

- a) What are PSP and TSP frame work activities?
Explain their meaning.
 - b) Write importance of SRS
 - c) What is meant by Domain Analysis in modelling.
 - d) Explain data dictionary with diagram.
 - e) State eight characteristics of software bugs.
 - f) Explain the type of risks.
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