



17513

21415

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**.
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MARKS

1. Answer **any five** of the following : 20
- a) Explain software engineering as a layered technology approach.
 - b) Enlist core principles of software engineering practice.
 - c) Describe data objects and data attributes.
 - d) List four objectives of testing.
 - e) List four basic principles of project scheduling.
 - f) What steps are required to perform statistical SQA ?
 - g) State any four attributes of a good software.
2. Answer **any four** of the following : 16
- a) Differentiate between waterfall model and incremental model.
 - b) What is SRS ?
 - c) Write importance of analysis modelling.
 - d) State eight characteristics of software bugs.
 - e) Enlist the features of SCM.
 - f) Describe six sigma for software engineering.
3. Answer **any four** of the following : 16
- a) What do you mean by process framework ? Explain with suitable diagram.
 - b) Write four drawback of RAD model.
 - c) Explain deployment principle.
 - d) What are the characteristics of good design ?
 - e) Differentiate between validation and verification.
 - f) What is risk projection ? Enlist steps of risk projection.

P.T.O.



4. Answer **any four** of the following : 16
- a) Explain different decomposition techniques.
 - b) Describe integration testing.
 - c) What is DFD ? Explain level 1 DFD with example.
 - d) Explain cardinality and modality with example.
 - e) Explain spiral model with neat diagram.
 - f) Describe Agile process models in detail.
5. Answer **any two** of the following : 16
- a) Describe eight principles of good planning.
 - b) With neat diagram explain translation of analysis model into design model.
 - c) Explain CMMI model with neat diagram.
6. Answer **any four** of the following : 16
- a) Compare PSP and TSP.
 - b) List seven tasks of requirement engineering.
 - c) Differentiate between alpha and beta testing.
 - d) Compare white box and black box testing.
 - e) Describe RMMM strategy in detail.
 - f) Differentiate between PERT and CPM.
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