

315323

25226

3 Hours / 70 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) 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.

Marks

- 1. Attempt any FIVE of the following :** **10**
- a) Enlist the types of software.
 - b) Define Software Engineering.
 - c) State any four principles of software deployment practice.
 - d) Define Data Modelling in Software Engineering.
 - e) State the meaning of 4 P's of the management spectrum in Software Engineering.
 - f) State the use of Gantt Chart.
 - g) Define Software Quality Assurance.
- 2. Attempt any THREE of the following :** **12**
- a) Describe the working of the spiral model using an example.
 - b) Explain the elements of Analysis model.
 - c) Explain the V-Model of Software Testing.
 - d) Explain function point metrics for size estimation.

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- 3. Attempt any THREE of the following : 12**
- a) State the core principles of Software Engineering.
 - b) Explain requirement elicitation techniques.
 - c) Draw and explain sequence diagram with suitable example.
 - d) Differentiate between Static Testing and Dynamic Testing.
(any four points)
- 4. Attempt any THREE of the following : 12**
- a) State any four Software characteristics.
 - b) Draw and explain use case diagram for library management system. (two actors and two use cases)
 - c) Explain four basic principles of project scheduling.
 - d) Explain CMMI model with neat diagram
 - e) Describe COCOMO model with suitable example.
- 5. Attempt any TWO of the following : 12**
- a) With the help of diagram describe Waterfall Model with its all phases. Also state its merits and demerits.
 - b) Describe any six fundamental design concepts with an example.
 - c) Explain following scheduling techniques.
 - i) Critical Path Method (CPM)
 - ii) Program Evaluation Review Techniques (PERT)
- 6. Attempt any TWO of the following : 12**
- a) Define SRS. Describe SRS format and state any two characteristics of SRS document.
 - b) Describe the steps involved in Risk Analysis and Management.
 - c) List and describe the phases of Software Quality Assurance.
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