

Note : 1) All questions are compulsory.

2) Figures to the right indicate full marks.

Q.1 Attempt the following. (Any Three)

[15 M]

- a) What is Software Engineering? Explain SDLC with all its phases.
- b) Explain Waterfall model.
- c) What do you mean by Agility? Explain its methods.
- d) Explain Extreme programming.
- e) What are Functional and Non-functional software requirements?
- f) Explain RAD Model.

Q.2 Attempt the following. (Any Three)

[15 M]

- a) What are the essential characteristics of socio technical system?
- b) What are the types of Critical System?
- c) What is Availability and Reliability of the software system?
- d) Write short note on Feasibility Study.
- e) Write a short note on Behavioral Model.
- f) What are the Data models available in Software System?

Q.3 Attempt the following. (Any Three)

[15 M]

- a) What is Modular Decomposition in Software System?
- b) What is the need of UI design?
- c) What do you mean by Project Scheduling?
- d) Write short note on Risk Management.
- e) Explain Quality Assurance and Standards used to maintain the quality of software.
- f) What are the Software Metrics?

Q.4 Attempt the following. (Any Three)

[15 M]

- a) Write short note on Verification and Validation in Software System.
- b) Write short note on System Testing.
- c) Explain Size-oriented Metrics.
- d) How to design the Test Cases?
- e) Explain Component Testing.
- f) What do you mean by Staffing?

Q.5 Attempt the following. (Any Three)

[15 M]

- a) Explain CMMI process.
- b) What do you mean by Service Engineering?
- c) Briefly explain Process and Product quality.
- d) What is Software reuse? Also explain COTS product reuse.
- e) What are the issues faced by Distributed software engineering?
- f) Explain Client Server Computing.

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