

Seat Number: _____

Duration: 2 ½ Hrs.

54IT - Software Engineering (05) Marks: 75

- Note:- (1) All questions are compulsory.
(2) Figures to the right indicate marks.

- 1. Attempt any three of the following: 15**
- a. Define software engineering. Explain the Software Development Life Cycle (SDLC) steps in brief. (CO1)[R]
 - b. Explain waterfall model with its advantages and disadvantages. (CO1)[R]
 - c. Explain AGILE methodology (CO1)[U]
 - d. Explain Black Box testing (CO1)[U]
 - e. Explain White Box testing (CO1)[U]
- 2. Attempt any three of the following: 15**
- a. Describe the quality of a good SRS. (CO2)[U]
 - b. Explain characteristics of requirements (CO2)[U]
 - c. Explain Functional requirements. (CO2)[U]
 - d. Describe any four requirement Elicitation methods (CO2)[U]
 - e. Explain the advantages of SRS. (CO2)[U]
- 3. Attempt any three of the following: 15**
- a. Explain Design concepts (CO3)[U]
 - b. Explain different types of cohesion (CO3)[U]
 - c. Explain different different types of coupling. (CO3)[U]
 - d. Draw Data flow Diagram symbols. (CO3)[U]
 - e. Write short notes on Process and Product Quality. (CO3)[U]
- 4. Attempt any three of the following: 15**
- a. Explain Verification and Validation. (CO4)[R]
 - b. Explain System Testing (CO4)[U]
 - c. Explain Test Case Design. (CO4)[U]
 - d. Describe Software Cost Estimation. (CO4)[U]
 - e. Explain Software Testing process. (CO4)[U]
- 5. Attempt any three of the following: 15**
- a. Describe the classification process (CO5)[U]
 - b. Explain benefits of a service-oriented approach. (CO5)[U]
 - c. What is reusable services (CO5)[U]
 - d. Explain the process improvement cycle (CO5)[U]
 - e. Explain application framework (CO5)[U]
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