A **Reg. No. :** | | | | | | | | | | |

Question Paper Code: 49810

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2019

Elective

COMMON TO CSE AND IT

14UIT910 BUILDING ENTERPRISE APPLICATION

(Regulation 2015)

Duration: Three hours Maximum: 100 Marks

Answer All Questions

PART A - (10x 1 = 10 Marks)

1. Which of the following statements about software engineering activities is true? CO1- R

   (a) Reverse-engineering refers to the process of improving software.

   (b) Refactoring refers to the improvement of internal software quality

   (c) Re-engineering refers to the same activities as reverse engineering.

   (d) Refactoring is performed before reverse-engineering.

2. Requirements are validated to ensure their CO1- U

   (a) Performance (b) feasibility

   (c) security (d) none of the above

3. Which of the following statements about the V-model is true? CO2- R

   (a) Verification is concerned with whether we build the right system.

   (b) Validation is concerned with whether we build the system right.

   (c) Acceptance is a concern of the customer.

   (d) Integration is a concern of the analyst.

4. ------- pronounce the interoperability and integration requirements of the enterprise applications CO2- U

(a) Scalability requirements (b) Operating requirements

(c) Life cycle requirements (d) Interface requirements

5. Which of the following statements about software quality attributes is true? CO3- R

(a) Interoperability measures how well software can be executed on another platform.

(b) Integrity measures how well accidential access to software can be controlled.

(c) Testability measures how correct and complete software is.

(d) Reliability measures how fast a software executes

6. Which of the following activities is not one of the four things that need to be accomplished by the generic planning task set? CO3- R

(a) Develop overall project strategy

(b) Identify the functionality to deliver in each software increment

(c) Create a detailed schedule for the complete software

(d) Devise a means of tracking progress on a regular basis

7. Analysis models depict software in which three representations? CO4- U

(a) architecture interface component (b) cost risk schedule

(c) information function behavior (d) None of the above

8. ----------, this metric is the measure of number of linearly independent paths through a method CO4- R

(a) Class size (b) Cyclomatic complexity

(c) Comments-to-code ratio (d) Number of attributes

9. Which of these is not one of the phase names defined by the Unified Process model for software development? CO5- A

(a) Inception phase (b) Elaboration phase (c) Construction phase (d) Validation phase

10. ------ is used to plan the execution of tests as decided in the test strategy CO5- R

(a) Test execution (b) Test analysis (c) Test planning (d) Test implementation

PART – B (5 x 2= 10Marks)

11. What are the three key Determinants of successful enterprise applications? CO1- U

12. What is the role of business process modeling in implementing enterprise? CO2- U

13. Define DMZ. CO3- U

14. State the activities involved in the translation of design to code CO4- U

15. Explain the use of integration and performance testing in detail. CO5- U

PART – C (5 x 16= 80Marks)

16. (a) Discuss in detail about various skills to build an enterprise application. CO1-U (16)

Or

(b) Determine the key characteristics and applicability of software engineering methodologies CO1 -U (16)

17. (a) What is requirement validation? What are its steps? Also write various challenges faced during requirement validation CO2 -U (16)

Or

(b) Explain Non-functional Requirements ? CO2 -U (16)

18. (a) Discuss about various types of Networking, Internet working, and Communication Protocols, IT Hardware and Software Middle-ware. CO3-U (16)

Or

(b) Explain in detail about architecture that enables separate applications to work together, but in a decoupled fashion such that applications can be easily added or removed without affecting the others? CO3- App (16)

19. (a) Construct the readiness of enterprise applications in various approaches? CO4-App (16)

Or

(b) Construct the technical solutions layers, methodologies of code review, static code analysis, build and testing, dynamic code analysis? CO4 -App (16)

20. (a) Explain in detail environmental testing ? CO5- U (16)

Or

(b) Discuss the details about Enterprise application with suitable example? CO5- U (16)