

32. a. Write short notes on history, version control and attributes.

(OR)

b. Explain the architecture of doors with a neat sketch.

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B.Tech. DEGREE EXAMINATION, DECEMBER 2017
Third/Fourth/Fifth Semester

15SE211 – REQUIREMENT ENGINEERING

(For the candidates admitted during the academic year 2015 – 2016 onwards)

Note:

- (i) **Part - A** should be answered in OMR sheet within first 45 minutes and OMR sheet should be handed over to hall invigilator at the end of 45th minute.
- (ii) **Part - B** and **Part - C** should be answered in answer booklet.

Time: Three Hours

Max. Marks: 100

PART – A (20 × 1 = 20 Marks)

Answer **ALL** Questions

1. Which is focused towards goal of organization?
(A) Feasibility study (B) Requirement gathering
(C) SRS (D) Requirement validation
2. The fundamental process with in requirement engineering do not include
(A) Elicitation (B) Validation
(C) Optimization (D) Specification
3. All non functional requirements representing _____ of the system.
(A) Portability (B) Quality
(C) Test (D) Availability
4. Which one of the following is a requirement that fits in developer's module?
(A) Availability (B) Testability
(C) Usability (D) Flexibility
5. What is the first step of requirement elicitation?
(A) Requirement gathering (B) Listing out requirement
(C) Identifying stakeholder (D) Requirement
6. What kind of approach was introduced for elicitation and modeling to give a functional view of the system?
(A) Object oriented design (B) Fusion
(C) Object modeling technique (D) Use cases
7. Which of the following requirement elicitation technique removes the poor understanding of application domain?
(A) FODA (B) CORE
(C) IBIS (D) Prototyping
8. Which one of the following is not an actor in JAD sessions?
(A) User (B) Tester
(C) Scriber (D) Sponsor

9. Which document is created by system analyst after the requirement are collected from various stakeholders?
 (A) Feasibility study (B) Software requirement validation
 (C) Software requirement specification (D) Requirement gathering
10. Which of the following property does not correspond to a good SRS?
 (A) Ambiguous (B) Verifiable
 (C) Complete (D) Traceable
11. Is the investment in solving the problem worth it answer by _____ document?
 (A) Vision (B) Business
 (C) SRS (D) Scope
12. Who is not belong to the users of requirement document?
 (A) Managers (B) End users
 (C) Test engineers (D) System engineers
13. Which is not quality improvement techniques?
 (A) Brain storming (B) Check list
 (C) Inspection (D) Multivoting
14. _____ developed by QUALTEC quality services provides a structure for tackling priority activities and problems.
 (A) Action plan (B) Checklists
 (C) QI story (D) Pare to analysis
15. Which is not part of PDCA cycle?
 (A) Procedure (B) No
 (C) Check (D) Act
16. _____ measurements relating to a single stage of development.
 (A) Global metrics (B) Use case
 (C) Analyst (D) Phase metrics
17. _____ provides a means to annotate modules and object with related information.
 (A) Property (B) Attributes
 (C) Views (D) Objects
18. A base line in doors refers to frozen copy of
 (A) Module (B) Folders
 (C) Projects (D) Objects
19. Object identifier in doors is made of
 (A) Section number and heading (B) Section number and object text
 (C) Prefix and absolute number (D) Object text
20. Which of the following is not a requirement management workbench tool?
 (A) RTM (B) Doors
 (C) Rational suite (D) RADD100

PART – B (5 × 4 = 20 Marks)

Answer ANY FIVE Questions

21. Discuss about non functional and functional requirement for smart parking system.
22. Explain the objectives of interview in elicitation requirement.
23. Narrate importance of user manual.
24. Explain business drivers of quality.
25. Write a note on baselining and view in doors tool.
26. List object oriented methods and explain one in detail.
27. Explain brainstorming method in elicitation requirement.

PART – C (5 × 12 = 60 Marks)

Answer ALL Questions

28. a. Draw the requirement representation diagram for smart class room system. For the following
 (i) View points
 (ii) Data flow diagram
 (iii) Use case
- (OR)
- b.i. Discuss about various levels in requirement engineering process. (8 Marks)
- ii. Justify social analysis of elicitation technique. (4 Marks)
29. a. Build a use case scenario to implement airport check-in and security screening business model with an use case template description. Set simple questionnaires to retrieve the requirement from stake holders.
- (OR)
- b. List modern elicitation techniques and explain in brief about any three techniques.
30. a. Develop a SRS for restaurant management system.
- (OR)
- b.i. Explain prototype concepts and its types.
- ii. Explain vision, scope and elicitation notes.
31. a. Explain quality improvement technique “QI story” with suitable example.
- (OR)
- b. Explain PDCA cycle with a neat diagram.