

Code No .E- 5132/O/AICTE

FACULTY OF ENGINEERING
B.E. (CSE) V - Semester (AICTE) (Backlog) (Old) Examination, February / March 2023

Subject: Software Engineering

Time: 3 Hours

Max. Marks: 70
(Missing data, if any, may be suitably assumed)
PART - A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Why is software engineering said to be a layered technology?
2. Define "pair programming".
3. What is Quality Function Deployment (QFD)?
4. What is system engineering? Why is it important?
5. Define use case diagram. Explain with an example.
6. Define Agility
7. Describe the difference between an Association and a Dependency for an analysis class?
8. Define archetypes.
9. Define software Quality.
10. What is Boundary value analysis?

PART - B

Note: Answer any five questions.

(5 x 10 = 50 Marks)

11. (a) List down the various umbrella activities.
(b) Discuss Prototyping Based development Model by bringing out its advantages and disadvantages.
12. (a) List the core principles of software engineering practice?
(b) What are requirements engineering tasks? Explain validating requirements.
13. (a) Discuss the various Analysis Modeling approaches in detail?
(b) Explain design concepts.
14. (a) Explain the golden rules performed in user interface design in detail.
(b) Explain the process of converting or mapping Data Flow (Diagrams) into Software Architecture?
15. (a) Briefly explain about the different kinds of metrics that are useful for testing.
(b) Explain the difference between test stub and a driver.
16. (a) What is Cyclomatic Complexity? How do you compute it? Explain with the help of an example.
(b) Explain about Alpha and Beta testing.
17. Write a short notes on:
(a) Debugging
(b) Behavioral model
