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Code No.: 16202 AS N

**VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD**  
**B.E. (CSE: CBCS) VI-Semester Advanced Supplementary Examinations, July-2019**

**Software Engineering**

Time: 3 hours

Max. Marks: 70

*Note: Answer ALL questions in Part-A and any FIVE from Part-B*

**Part-A (10 × 2 = 20 Marks)**

1. Draw generic process framework activity diagram in software engineering.
2. What is an agile process?
3. Differentiate coupling and cohesion.
4. List the risk categories in Risk management.
5. Give the basic fundamental rules of the UML.
6. Define multiplicity in class diagram in UML.
7. Write the things used in Use case diagram.
8. What is Action states and activity states?
9. Define Alpha testing and Beta testing.
10. What is stress testing?

**Part-B (5 × 10 = 50 Marks)**

*(All sub-questions carry equal marks)*

- 11.a) What is CMMI? Explain the various levels defined in CMMI in software process.  
b) Explain the scrum model in agile method and how does the scrum applicable for Engineering projects?
- 12.a) How is the software process estimated? Explain the process using any cost estimation model.  
b) Many different approaches to collaborative requirements gathering have been proposed. Explain collaborative requirements gathering.
- 13.a) Explain the different relationships used in UML.  
b) List the things used in class diagram and draw the class diagram for student management system.
- 14.a) What is behavioral diagram? and explain the concept with an example diagram.  
b) Discuss various kinds of components in detail and draw component diagram for Examination system.
- 15.a) Define cyclomatic complexity. How is this used in basis path testing?  
b) The goal of testing is to find errors, and good test is one that has a high probability of finding and error. The test must exhibit a set of characteristics that achieve the goal of finding the most errors with a minimum effort. Explain the different black box testing methods to test the software.

- 16.a) Explain the spiral model in software development model.
  - b) What is Abstraction? Explain the different types of Abstraction.
17. Answer any *two* of the following:
- a) Explain the building blocks in UML.
  - b) Draw Use case diagram for food delivery system.
  - c) Explain various test strategies for conventional software.

