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**II Semester M.C.A. Degree Examination, December - 2023****COMPUTER SCIENCE****Software Engineering****( CBCS Scheme Y2 K20 )****Paper : 2MCA4****Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates:**

1. *Answer any Five questions from Section - A*
2. *Answer any Four questions from Section - B*

**SECTION - A****Answer any FIVE questions, Each question carries 6 marks.****(5×6=30)**

1. Discuss the four core values of Agile manifesto.
2. What is use case diagram? Illustrate the interactions between actors and system for an ATM system.
3. Define refactoring. Explain how refactoring helps in agile development.
4. What is the purpose of using measures in software development projects? Explain various measures used in context of Agile software development.
5. What is Test Driven Development (TDD)? Explain how TDD fits into agile methodologies.
6. Write a short note on agile software development from constructivist perspective.
7. Explain the various abstraction levels in agile software development.
8. Explain retrospective facilitator, his roles and responsibilities in agile.

**[P.T.O.]**



## SECTION-B

Answer any FOUR questions. Each question carries 10 marks. (4×10=40)

9. a) Explain the role scheme in agile teams  
b) Discuss dilemmas and awards in teamwork (5+5)
10. a) Draw activity diagram for online order placement system. (6)  
b) What are the techniques used to ensure tightness of software projects? (4)
11. a) Briefly explain the agile approach to quality assurance. (5+5)  
b) Explain how agile software development supports learning process.
12. a) Write a note on the conceptual framework for change introduction.  
b) Discuss the role of short releases and iterations in learning process. (5+5)
13. a) Explain the agile approach in global software development.  
b) What roles do coach and mentor play in agile leadership and how does this benefit the team members? (5 +5)
14. Write short notes on:  
a) Release Celebration  
b) Reflective sessions between releases (5+5)
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