

**FACULTY OF ENGINEERING**  
BE 4/4 (CSE) II – Semester (Main& Backlog) Examination, May / June 2019

Subject: Software Reuse Techniques (Elective – II)

Time: 3 hours

Max. Marks: 75

Note: Answer all questions from part A & Answer five questions from part – B.

PART – A (25 Marks)

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|---|---|
| 1. What are the basic principles of software reuse?                 | 3 |
| 2. Define domain engineering?                                       | 2 |
| 3. List the consequences of factory Pattern?                        | 2 |
| 4. Define Delegation?   | 2 |
| 5. Write the difference between Adapter pattern and Bridge pattern? | 3 |
| 6. What are the advantages of chain of responsibility pattern?      | 3 |
| 7. What is the intent and context of broker architecture pattern?   | 2 |
| 8. Define architecture pattern and list them?                       | 3 |
| 9. What is the intent and context of black board?                   | 3 |
| 10. Mention advantages of software reuse?                           | 2 |

PART – B (5 x 10 = 50 Marks)

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|--|-------|
| 11.a) Explain how software engineering is a systematic model building?                               | 6     |
| b) How usecase model shapes the rest of the system?  | 4     |
| 12. Explain the intent, motivation, applicability structure and implementation of prototype pattern? | 10    |
| 13. Draw the structure and specify the participants for following pattern:                           | 4+3+3 |
| a) Composite pattern    b) Decorator pattern    c) command pattern                                   |       |
| 14. How to use several kinds of variability mechanisms?  | 5     |
| 15. a) Explain about Model – View - Controller?  | 5     |
| b) Explain about Presentation – Abstraction- Control?  | 5     |
| 16. Write in detail about Adaptable system?  | 10    |
| 17. Justify “Application families allows significant reuse” with example?                            | 10    |

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