

B.E. Sixth Semester (Computer Technology) (C.B.S.)
Software Engineering & Project Management

P. Pages : 2

Time : Three Hours



NKT/KS/17/7403

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
 2. Solve Question 1 OR Questions No. 2.
 3. Solve Question 3 OR Questions No. 4.
 4. Solve Question 5 OR Questions No. 6.
 5. Solve Question 7 OR Questions No. 8.
 6. Solve Question 9 OR Questions No. 10.
 7. Solve Question 11 OR Questions No. 12.
 8. Due credit will be given to neatness and adequate dimensions.
 9. Assume suitable data whenever necessary.
 10. Illustrate your answers whenever necessary with the help of neat sketches.
 11. Use of non programmable calculator is permitted.

1. a) Explain unified process model in detail. 6
- b) Explain different software characteristics with respect to hardware characteristics with proper diagram. 7

OR

2. What is Agility? Describe different agile process models along with their diagrams. 13

3. a) Describe all the stages of Requirement Engineering in detail. 6
- b) Explain Business Process Engineering in detail. 7

OR

4. a) Write a short note on Software Engineering & modelling in detail. 7
- b) Write a short note on communication practices. 6

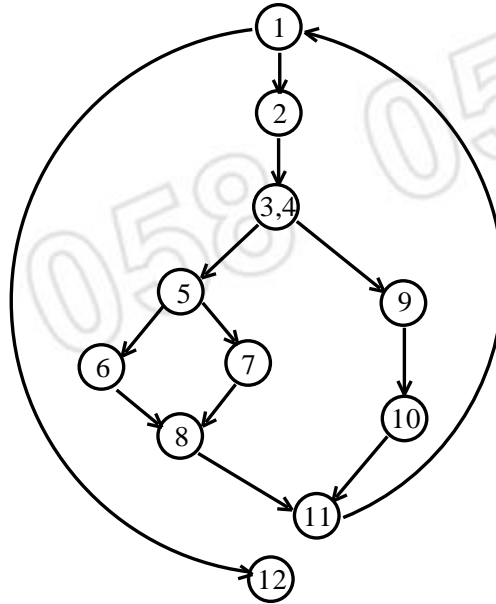
5. Define following software design concepts : 14

- 1) Abstraction
- 2) Pattern
- 3) Modularity
- 4) Information Hiding
- 5) Refactoring
- 6) Class & object
- 7) Encapsulation

OR

6. Discuss : 14
- a) Object Oriented Modeling
 - b) Scenario based Modeling.

7. a) What do you mean by cyclomatic complexity? Explain how it is composed for the following graph. 8



- b) Explain graph matrix method for computing cyclomatic complexity. 5

OR

8. Discuss following testing strategies. 13

- i) Unit Testing
- ii) Integration Testing
- iii) Regression Testing
- iv) Smoke Testing
- v) Validation Testing
- vi) System Testing

9. a) What are the different quality factors used to measure software quality. 7

- b) Discuss Defect Amplification and Removal model in detail. 6

OR

10. a) Write a short note on Function Oriented Metric? 6

- b) Write a short note on size oriented metric? 7

11. a) Write short note on :

- i) Software Risks
- ii) SCM Repository.

- b) Discuss RMMM. 6

OR

12. a) Write a short note on Reverse Engineering. 7

- b) Write a short note on Software Reengineering. 7
