

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

P. Pages : 2

Time : Three Hours



NRJ/KW/17/4547

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.

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|-----------|----|--|----------|
| 1. | a) | Define software engineering. Explain software characteristics in detail. | 6 |
| | b) | Explain software engineering- a layered Technology. | 7 |

OR

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|-----------|----|--|----------|
| 2. | a) | Explain common process framework for software engineering in detail. | 7 |
| | b) | Explain Unified Process model in detail. | 6 |
| 3. | a) | What is FAST? Explain in detail. | 7 |
| | b) | Explain the component of computer based system. | 6 |

OR

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| 4. | a) | What is SRS? Explain in brief. | 6 |
| | b) | Explain system Engineering Hierarchy in detail. | 7 |
| 5. | a) | Explain the components of analysis modelling. | 8 |
| | b) | Explain the Behavioural model in detail. | 6 |

OR

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|-----------|----|--|-----------|
| 6. | a) | Give and explain ten design principles in detail. | 10 |
| | b) | Write short note on modularity. | 4 |
| 7. | a) | Explain different testing principles suggested by Davis. | 4 |
| | b) | Explain Black- Box Testing techniques in detail. | 10 |

OR

8. a) Write short notes on: 9
- i) Validation Testing.
- ii) System Testing.
- iii) Integration Testing.
- b) What is Debugging? Explain the process of debugging in detail. 5
9. a) Explain McCall's Quality factor. 6
- b) What is software Maturity Index? Why it is used? How it is computed? 4
- c) What are Metrics, Measures and Indicators. 3
- OR**
10. a) Explain formal Technical Review (FTR) in detail. 6
- b) How decision tree is used for Make-buy decision of software system? 7
11. a) Define Risk? Explain different types of Risk. 5
- b) Explain in detail: 8
- i) Change Management.
- ii) Project scheduling.
- OR**
12. a) Explain in detail software Reengineering Process. 7
- b) Explain RMMM plan. Also explain the concept of Risk projection. 6
