

B.E. Eighth Semester (Computer Science & Engineering) (CGS)
10354 : Software Engineering : 8 KS 03 / 8 KE 03

P. Pages : 2

Time : Three Hours



AU - 3014

Max. Marks : 80

- Notes : 1. Assume suitable data wherever necessary.
2. Illustrate your answer necessary with the help of neat sketches.
3. Use of pen Blue/Black ink/refill only for writing the answer book.

1. Explain following models in detail with advantages & disadvantages. **14**

- i) Prototyping model ii) RAD model
iii) Spiral model iv) Linear sequential model

OR

2. a) Explain why programs which are developed using evolutionary development model, likely to be difficult to maintain. **7**

b) Explain W5HH principle in detail. & Also explain three generic team organizations. **7**

3. a) Explain risk information sheet with example. **7**

b) Describe differences between risk components & risk drivers. **6**

OR

4. a) What are various software risk explain in detail. **7**

b) Explain the function oriented matrices and also explain how function points are calculated. **6**

5. a) Explain with example how timeline charts helps in scheduling a software product. **7**

b) Define SCM & describe the various element of SCM. **6**

OR

6. a) What are the various SQA activities? Explain in detail **8**

b) Explain two software reviews in detail. **5**

7. a) Explain design documentation specification why do software development projects generate so much documentation. **7**

b) Explain the relationship between modularity and the software cost. **7**

OR

8. a) Explain the following. 8
- a) Partitioning in detail.
 - b) Quality function deployment.
 - c) Cohesion.
 - d) Effective modular design.
- b) Explain requirement analysis and how it bridges between system engineering & software design. 6

9. a) Explain basic steps in. 6
- i) Transform mapping. ii) Transaction mapping.
- b) Explain the following terms. 7
- i) Tabular design notation. ii) Program design language.

OR

10. a) Describe the different evaluation criteria applied when a design model interface has created. 6
- b) Describe in brief the taxonomy of styles and patterns of architectural styles. 7
11. a) Explain why regression testing is necessary. 5
- b) Explain following types of testing. 8
- i) Smoke testing. ii) White Box testing
 - iii) Black -Box testing iv) Integration testing

OR

12. a) Explain the terms. 8
- i) Verification. ii) Validation.
 - iii) Cyclomatic complexity. iv) Debugging.
- b) Explain what is integration testing and explain top down integration & bottom- up integration testing. 5
