

AP – 560

Fifth Semester B.C.A. (Part - III) Examination

SOFTWARE ENGINEERING

Paper - 5 ST 3

P. Pages : 3

Time : Three Hours]

[Max. Marks : 60

1. (a) What is Software engineering ? Explain importance of Software engineering layers.

6

- (b) Explain spiral model for software engineering.

6

OR

2. (a) Define Requirement engineering. Explain Requirement engineering process.

6

- (b) Define process, tools and methods with labelled diagram.

6

3. (a) Explain the various issues in software cost estimation.

6

- (b) Explain the steps for problem analysis.

6

OR

4. (a) What is Risk management in software development. 6
- (b) Explain the term :—
- (i) Project resources.
- (ii) Software sizing. 6
5. (a) What are the various symbols used in E-R diagram ? Explain it with suitable example. 6
- (b) Explain :—
- (i) Decision tree.
- (ii) Decision table. 6

OR

6. (a) What is modularity ? Explain with suitable example. 6
- (b) Explain :—
- (i) Architectural design.
- (ii) Component design. 6

7. (a) Why system documentation is necessary? Explain. 6
- (b) Explain the role of Resource management. 6

OR

8. (a) Differentiate structured programming from object oriented programming. 6
- (b) Explain following Object Oriented concepts:
- (i) Classes and object.
- (ii) Attributes.
- (iii) Inheritance and polymorphism. 6
9. (a) What is V and V ? Explain role of V and V in software quality management. 6
- (b) What are the basic element of the ISO 9001: 2000 standard ? 6

OR

10. (a) Explain :—
- (i) SQC (ii) SQA 8
- (b) Why software testing is necessary ? Explain. 4

