

AR – 652

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

SOFTWARE ENGINEERING

Paper – 5 ST 3

P. Pages : 3

Time : Three Hours]

[Max. Marks : 60

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- Note :** (1) All questions are compulsory.
(2) Assume suitable data wherever necessary.
(3) Draw well labelled diagram wherever necessary.

1. (A) What is Software Engineering ? Explain importance of Software Engineering Layers. 6

(B) Explain Spiral model for Software Engineering. 6

OR

2. (A) Explain the Software Application types. 6

(B) Explain the Waterfall model. 6

3. (A) Explain the steps for problem analysis. 6

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(B) Explain following methods of estimation :

(i) LOC.

(ii) Cost Estimation. $3+3=6$

OR

4. (A) What are the steps in Project Management Process ? Explain. 6

(B) Explain the various factors that influence cost. 6

5. (A) What is modularity ? Explain with suitable example. 6

(B) Explain :

(i) Structural Partitioning.

(ii) Decision tree. $3+3=6$

OR

6. (A) What is Design Process and what is Principle of Design Process ? 6

(B) What is Software Architecture ? Explain its importance. 6

7. (A) What is Software reuse ? Explain the concept of Software reuse. 6

(B) What are the difficulties in Software Project Management ? State Law of Project Management. 6

OR

8. (A) What is OO Programming ? Explain the impact of OO Programming on testing. 6

(B) Explain :

(i) Information Hiding.

(ii) System Documentation. $3+3=6$

9. Explain :

(i) Verification.

(ii) Validation.

(iii) Debugging. $4+4+4=12$

OR

10. (A) Define Quality. What is Software quality ? Explain. 6

(B) What are the basic elements of the 9001-2000 standard ? 6

