

AL - 540

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

SOFTWARE ENGINEERING

Paper - 5 ST 3

P. Pages : 3

Time : Three Hours]

[Max. Marks : 60

- Note :** (1) Assume suitable data wherever necessary.
 (2) Illustrate your answer necessary with the help of neat sketches.

1. (A) State and explain waterfall model for software Engineering. 6
- (B) Define process, tools and method with labeled diagram. 6

OR

2. (A) State and explain spiral model. 8
- (B) What are the objectives of Requirement Analysis ? Explain. 4
3. (A) State and explain the steps in project management process. 8
- (B) Explain the term project metrics. 4

OR

4. (A) Explain :—
 (i) Product
 (ii) Process
 (iii) People. 6
- (B) What are the steps required to perform cost estimate using cocomo model ? 6
5. (A) What are the importance of documentation in software design ? Explain. 8
- (B) What is modularity ? Explain with suitable example. 4

OR

6. (A) What is ER-Model ? Explain with example. 8
- (B) Explain Top down strategies. 4
7. Explain the following object oriented concepts :—
 (i) Classes and objects.
 (ii) Attributes.

- (iii) Operations, method and services.
 (iv) messages.
 (v) Encapsulation, inheritance and polymorphism.

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OR

8. (A) Explain the role of requirement planning in the project to ensure success. 6
- (B) Explain the term information Hiding. 6
9. (A) How to measure the complexity of programme ? Explain. 6
- (B) Explain :—
 (i) SQA
 (ii) ISO 9001 6

OR

10. (A) Explain the role of V and V in software quality management. 6
- (B) What are software quality parameter ? Explain. 6