

Roll No. ....

**V – 6162**

**B. C. A. (Fifth Semester)**

**EXAMINATION, Nov./Dec., 2019**

**Paper – 502**

**SOFTWARE ENGINEERING**

*Time : Three Hours*

*Maximum Marks : 80 (For Regular Students)*

*Minimum Pass Marks : 32*

- Note–** (i) Attempt *all* questions.  
(ii) All questions carry equal marks.

***Unit – I***

1. What do you understand by Software Engineering ? List its practical applications. Draw and explain spiral model of software development.

***Or***

Write explanatory short notes with suitable example and/or diagram, on any *two* of the following–

- (i) Need of software life cycle models
- (ii) Software crises

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- (iii) Water fall and prototype models
- (iv) Software process and characteristics.

***Unit – II***

2. What is software project planning ? Explain why it is needed ? Explain the issues involved in Software estimation and size estimation. <http://www.jiwajionline.com>

***Or***

Write explanatory short notes on any *two* of the following with suitable examples–

- (i) Software project management techniques
- (ii) Software project planning
- (iii) COCOMO model and its uses

***Unit – III***

3. What is Software design ? List basic concepts of software design. Explain following terms with examples :
- (i) Design process and
  - (ii) Software design levels.

**Or**

Write explanatory short notes on any *two* of the following—

- (i) Design structure charts
- (ii) Design strategies
- (iii) Software configuration management
- (iv) Top down and bottom up design.

**Unit – IV**

4. What is object oriented analysis and design? List its basic concepts and explain, why it has become popular? Give suitable example.

**Or**

Write explanatory short notes on any *two* of the following—

- (i) UML and its advantages
- (ii) Traditional paradigm versus object oriented paradigm
- (iii) Sequence diagram and activity diagram in UML
- (iv) Advantages and disadvantages of object oriented analysis and design approach in software engineering.

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**Unit – V**

5. Write detailed notes on any *three* of the following, giving suitable example and diagram—

- (i) Software metrics
- (ii) Software maintenance model
- (iii) Concept of software Re-engineering
- (iv) Software Reverse engineering
- (v) Halstead software science measures
- (vi) Software Testing—need and methods.

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