

**N-3/2050**

**SOFTWARE ENGINEERING-324**

(Semester-VI)

Time : Two Hours]

[Maximum Marks : 75

**Note** : Attempt any *four* questions. All questions carry equal marks.

- I. (a) How software engineering approach is different from Traditional Approach ? Explain.  
(b) Compare and contrast waterfall and prototyping models.
- II. (a) Define software process. Explain through example.  
(b) Explain project management process in detail.
- III. (a) Why cocomo model is used ? Explain Model.  
(b) Explain Cyclomatic complexity metric in detail.
- IV. (a) Why data flow diagrams are required ? Explain how are they made ? Illustrate.  
(b) Explain various components of SRS.

- V. (a) How software design is carried ? Explain various design principles.
- (b) Define design metrics. Explain network metrics in detail.
- VI. (a) Explain various guidelines for programming and coding in detail.
- (b) How static analysis is performed before actual implementation ? Explain.
- VII. (a) Define Testing. Explain Black Box Testing in detail.
- (b) Explain any two white Box Testing Techniques.
- VIII. (a) What is Maintenance ? Explain various categories of maintenance.
- (b) Define Reliability. Explain its various uses.
- IX. Explain :
- (a) Test case specification.
- (b) Information flow metrics.
- (c) Structured charts.
- (d) Software engineering challenges.
- (e) Software configuration management.
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