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Total No. of Pages : 2

**PC 7684-M**

**M-26/2057**

**SOFTWARE ENGINEERING-324**

**Semester-VI**

Time Allowed : Three Hours]

[Maximum Marks : 75

**Note :-** Attempt *two* questions each from Sections A and B and the entire Section C.

**SECTION—A**

1. What is meant by Software development life cycle ? Discuss different phases of development life cycle in brief. 15
2. Define software process. Elaborate on various characteristics of software process. 15
3. List the major attributes of good quality software. Explain cyclomatic complexity metric in detail. 15
4. What is the need for SRS ? Give significant components of SRS. 15

**SECTION—B**

5. Give the design principles and explain in brief about structured design methodology. 15
6. What are various methods for code verification and give a few guidelines for good code. 15

[P.T.O.]

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7. Differentiate between :
- (i) Black box testing and white box testing
  - (ii) Control flow and data flow based testing.
- 15
8. Why software maintenance is considered as the costliest and longest phase in the software development life cycle ? Give different categories of maintenance.
- 15

### SECTION—C

9. Attempt any five questions :
- (a) Briefly discuss waterfall model with the help of suitable diagram.
  - (b) How cost can be computed using COCOMO model ?
  - (c) What are various symbols used in a data flow diagram ? Draw an example DFD using all symbols.
  - (d) Explain information flow metrics.
  - (e) Give different levels of testing.
  - (f) What are uses of reliability studies ?
- 5×3=15