

**NEW**

**2016**

**BCA**

**4th Semester Examination**

**SOFTWARE ENGINEERING**

**PAPER—2204**

*Full Marks : 100*

*Time : 3 Hours*

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Answer any five questions.**

1. (a) What is software crisis? Write down the solution of it.
- (b) Discuss briefly about five common factors (TELOS) of feasibility study.

*(Turn Over)*

- (c) What is function point metric? What is the disadvantage of it over feature point metric?

5+5+4

2. What do you mean by the terms cohesion and coupling in the context of software design? How are these concepts useful in arriving at a good design of a System?

8+6

3. (a) Explain spiral model with diagram.

(b) Explain the different type of maintenance of classical waterfall model.

(c) What is DFD? Write down the difference between logical and physical DFD.

6+4+4

4. (a) Write down the list of the important activities that software project manager perform during project planning.

(b) What do you mean by regression testing?

(c) Describe the terms test case and test case criterion?

(d) What is LOC?

4+4+4+2,

5. Explain White Box Testing and Black Box Testing in details.

What is DFD? State the notations used for creating a DFD.

8+2+4

6. Differentiate between verification and validation. List some advantages of waterfall model.

Differentiate between Unit testing and System testing.

4+4+6

7. (a) What do you mean by risk in software development? Mention some common risk associated with software development.

(b) What is the need for SRS?

(c) What are the characteristics of SRS?

(2+3)+4+5

**[Internal Assessment — 30]**

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