

NEW

2017

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.

5×4

1. (a) Explain prototyping model of software development.
- (b) What are the advantages and disadvantages of the this model ?
- (c) Discuss when to use the spiral model. 6+5+3

(Turn Over)

2. (a) What is DFD ? Explain the different symbols used in DFD.
- (b) What is SRS ? Explain functional and non-functional requirements of the SRS.
- (c) Write down the characteristics of a good SRS.
- 4+6+4
3. (a) What is modular system ? What are the advantages of it ?
- (b) What is cohesion ? Explain different classes of cohesiveness.
- (c) What is the difference between cohesion and coupling.
- 4+7+3
4. (a) What is LOC ? What is the shortcoming of it ?
- (b) Compare expert judgement and Delphi cost estimation techniques.
- (c) Explain in brief the different form of software reliability ?
- 5+5+4

5. (a) What is Data Dictionary ?
(b) Explain Top-Down and Botton-up design.
(c) Write down the difference between Functional and Object-Oriented Approach. 3+5+6
6. (a) What is Software Testing ?
(b) Write down the difference between Testing and Debugging.
(c) Differentiate between White Box Testing and Black Box Testing approach.
(d) Mention the different types of system testing ? 3+2+6+3
7. (a) Distinguish among organic, semidetached and embedded software products.
(b) Briefly discuss basic COCOMO model.
(c) Write down the list of the important activities that software project manager perform during project planning. 4+6+4

[Internal Assessment — 30]