

At the End of Fifth Semester
Degree Examinations

NOVEMBER 2017

Computer Science

SOFTWARE ENGINEERING

(Common for B.A. (CA), B.Sc. (CS), B.Sc. (CA))

(CBCS Pattern)

Time : 3 Hours

Max : 75 Marks

Section A (5 × 5 = 25 Marks)

Answer any five of the following questions.

1. Explain metrics for software quality.
2. Discuss about the requirements analysis.
3. What is cohesion ? What are its types ?
4. Explain the rules used for user interface design.
5. Explain software reliability and software safety.
6. Write short note on data flow diagram with an example.
7. Give system response time characteristics.
8. Explain about system testing and unit testing.

Section B (5 × 10 = 50 Marks)

Answer all the questions.

Unit 1

1. (a) Why SE is important to manage project ? Explain software management.

(Or)

(b) What is Risk analysis ? What are its types and explain risk analysis process.

2. (a) What is requirement engineering ? Explain various concepts that lead to effective software engineering.

(Or)

(b) Enumerate the functions of requirement engineering.

3. (a) Explain various decomposition techniques.

(Or)

(b) What is data design ? What are various elements of data design ? Write the guideline for data design.

Unit IV

4. (a) What are the steps used in user interface analysis and design.

(Or)

(b) Explain about user interface design and interface standards.

Unit V

5. (a) What is SQA ? Write about elements of SQA.

(Or)

(b) What are CASE Tools ? Explain its types in detail.
