

18G6

B.Tech. EXAMINATION, 2024

(Seventh Semester)

(C Scheme) (Main & Re-appear)

(CSE)

CSE405C

**SOFTWARE DESIGN AND ENTERPRISE
COMPUTING**

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. What do you mean by security audit of a software ? How can we identify the vulnerabilities in a software ? Propose and describe at least *five* types of vulnerabilities.

15

2. (a) List and explain different activities performed during security analysis of a software.

7

- (b) The small flaw in a software can be very dangerous for the organization. Support your answer with some valid case studies.

8

Unit II

3. Write and explain the different challenges faced by the designers of a distributed N-tier software application. Explain, how these challenges are tackled by the designers.

15

4. Describe the strategy and any technology available to you for the presentation of business and data tiers of the software application which has been recently developed by a team which is being headed by you as team head.

15

Unit III

5. What are the responsibilities of the network administrator who is responsible for installing and maintaining the Web server in an organization ?

15

6. What are the challenges faced by the engineers responsible maintaining the directory based server in an organization ? Also describe the infrastructural requirements for the implementation of a directory based server for a heterogeneous systems environment.

15

Unit IV

7. What is the importance of software metrics ?

List and explain any five software metrics being used in software industry. **15**

8. Define software quality. Why is it important ?

Write the necessary guidelines to be followed in an organization for managing the software quality. **15**