Roll No ....

CS-701-CBGS

B.Tech., VII Semester

Examination, December 2020

Choice Based Grading System (CBGS)

Software Architecture

Time : Three Hours

Maximum Marks : 70

Note: i)   Attempt any five questions.

ii) All questions carry equal marks.

1. What is Software Architecture? Discuss with an example how software architecture represents a System's earliest set of design decisions?   14

2. a)   Discuss different models of software development and write down their issues.   7

    b)   Perform a comparative study of the different architectural styles.

3. a)   Explain pipes and filters in detail.   7

    b)   Explain design rules of user interface architecture.   7

4. Explain the need of integration in software development environments. Give relevant examples.   14

5. What is architecture description language? Outline the features of architecture description languages.   14

6. a) Discuss the role of UML in Software Architecture. 7
   b) Explain Cost Benefit Analysis Method (CBAM) for architecture based economic analysis. 7

7. a) Explain the Notation linguistic issues in software architectural design. 7
   b) Explain briefly about Data and Message Exchange patterns for Enterprise SoA. 7

8. a) Explain ATAM (Architecture Trade off Analysis Method) and its phase. 7
   b) Write brief notes: 7
      i) RMI
      ii) Principles of sound documentation.

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