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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

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- 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.
