

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- FEBRUARY 2018

B.Tech. VIII & M.Tech. II Semester

COURSE CODE: 10M11CI213

MAX. MARKS: 15

COURSE NAME: Advance Software Engineering

COURSE CREDITS: 03

MAX. TIME: One Hour

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. a) What is architectural system structuring? Draw and explain the architecture of security target system.
b) Design process architecture for an environment monitoring system that collects data from set of air quality sensors situated around a city. Further what are the decisions that are needed during architectural design? [2+3=5 MARKS]
2. a) What is reuse based software engineering? Explain why adapters are usually needed when systems are constructed by integrating COTs products.
b) What are the benefits and problems in software reuse? Explain different approaches of application software reuse? [3+2=5 MARKS]
3. a) Explain how software process factors influence software quality and productivity?
b) Explain different types of reuse based software engineering. Define planning factors and concepts of software reuse? [2+3=5 MARKS]