JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- FEBRUARY 2019

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

COURSE CODE: 10M11CI213

COURSE NAME: Advance Software Engineering

COURSE CREDITS: 03

MAX. MARKS: 15

MAX. TIME: One Hour

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

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1. a) Explain the difference between computer science and software engineering. Further, describe various attributes of good software?

    b) Design architectural context of a security system. Further construct three tier architecture of an internet banking system with detailed explanation?

    c) Explain different types of application architecture? **[1.5+1.5+2=5 MARKS]**

2. a) What is component based software engineering? Explain why adapters are usually needed when systems are constructed by integrating COTs products.

    b) What are the planning factors of software reuse? Explain different approaches of application software reuse?

    c) Explain different views of component designing with diagram? **[2+1.5+1.5=5 MARKS]**

3. a) Differentiate between product and process quality? Elaborate different classification of process?

    b) Explain different stages of a process change with diagram. Further describe different components of conventional designing? **[2+3=5 MARKS]**