JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- FEBRUARY 2020

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) Explain the difference between system engineering and software engineering. Explain two types of software products? What are the key challenges facing by software engineering?   **[1.5+1.5+2=5 MARKS]**

   b) Design architectural context of a security system. Further explain three organizational styles of common architectural model?

   c) Explain difference between distributed and client server system architectures?

2. a) What are different application types? Explain with their examples?

   b) What are data processing systems? Explain data-flow diagram of salary payment structure?

   c) Explain CBSE process with diagram in detail? Further describe different views of component designing with their diagrams? **[2+1.5+1.5=5 MARKS]**

3. a) Elaborate different classification of processes with their applicability? Differentiate between process analysis and modeling?   **[2+2+1=5 MARKS]**

   b) What is reuse-based software engineering? Explain different types of program generator?

   c) Explain different designing conventional components of software reuse?