JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- MAY 2018

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

COURSE CODE: 10M11CI213                                    MAX. MARKS: 35

COURSE NAME: Advance Software Engineering

COURSE CREDITS: 03                                         MAX. TIME: Two Hour

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

1. [CO-5] a) A colleague who is very good programmer produces software with a low number of defects but consistently ignores organizational quality standards. How should her managers react to this behavior?

   b) Assume you work for an organization that develops database products for individuals and small businesses. This organization is interested in quantifying its software development. Suggest appropriate metrics and how these can be collected?

   c) Explain why tangling and scattering can cause problems when system requirements change.

   **[2.5*3=7.5 MARKS]**

2. [CO-4] Extreme programming expresses user requirements as stories, with each story written on a card? Discuss the advantages and disadvantages of this approach to requirement specification.                                              **[5 Marks]**

3. [CO-5] Name the different practices of agile modeling? Explain the interactions between different practices?                                               **[3 MARKS]**

4. [CO-8] Using the UML graphical notation for object classes, design the following object classes identifying attributes and operations. Use your own judgment and experience to decide on the attributes and operations that should be associated with these objects :       **[4 Marks]**

   a) A telephone

   b) A printer for a personal computer

   c) A personal stereo system

d) A bank account

e) A library catalogue


5. [CO-7] a) Our test environment is very complex and run by other organization. How can we iterate and test? **[2.5*2=5 MARKS]**

  b) How to do documentation for maintenance, when we want to be agile?


6. [CO-6] a) what is software metrics? Difference between measure and metrics?

  b) Brief the difference between product and process metrics?

  c) Explain different phases of software metrics? **[1.5*3=4.5 MARKS]**


7. [CO-7] a) Explain the types of people in management spectrum? Discuss the issues of coordination and communication between the people?

  b) What is MDA? Explain its different models? **[2*2=4 MARKS]**


8. [CO-8] Explain $W^5HH$ principle? **[2 MARKS]**