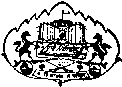
****

**UNIVERSITY OF PUNE**

**INTERDISCIPLINARY SCHOOL OF SCIENTIFIC COMPUTING**

**Mid SemesterExamination – II**

**Course No. : SC – 102**

**Subject: Software Engineering**

**Date: 5/10/2015 Marks: 40**

**Duration: 2Hr ( 10:30am to 12:30pm)**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Note: 1) Please read the questions carefully.**

**2) All questions are compulsory.**

**3) State any assumptions you make to answer the questions.**

**Answer the following questions (5 marks each)**

**Q1.** Explain how hardware characteristics are different from software characteristics.

Indicate how wear and deterioration differ by drawing and describing sample

graphs of each.

**Q2.** Describe the salient features and flow of the Scrum Model of the Agile methodology

with a diagram to explain the answer.

**Q3. Name two advantages and two disadvantages of each of the below**

1. Waterfall model
2. Spiral Model

**Q4.** Explain in detail what are the steps in Project Planning.

**Q5.** What are the different techniques for Scheduling? Explain any one.

**Q6.** Draw a sequence diagram for the requirements given below.

You are a business analyst, analyzing the scenario of a telephone call between two

phones.

* Assume the scenario starts with a dial tone when the caller picks the phone, a switch (BSNL) making the routing and the called-party answers.
* Analyze the exceptions that may occur in making a connection e.g. busy tone, invalid phone number, no response etc.
* Clearly show the participants, message and the axes in the diagram.

**Q7**. Explain in detail where and how requirements engineering play a role in

software development models given below.

1. Waterfall Model
2. Spiral Model
3. Agile Model

**Q8.** What are attributes of good design/architecture? Explain any 5 in detail.

\*\*\*\*\*