

CE1.4-R4: PROJECT MANAGEMENT

NOTE:

1. Answer question 1 and any FOUR from questions 2 to 7.
2. Parts of the same question should be answered together and in the same sequence.

Time: 3 Hours

Total Marks: 100

1.
 - a) What are the different attributes of software quality? List all and explain any one in brief.
 - b) Describe RUP in two to three lines. Also list four phases of RUP development cycle.
 - c) Describe the typical inputs and outputs of the planning activity of a software project in one to two lines.
 - d) Give broad outline of software project estimation.
 - e) List any two important risks while managing software project development. Along with the risk, also list the risk management techniques for the risks you have enlisted.
 - f) Differentiate verification and validations in brief.
 - g) Give any UML class diagram of your choice showing inheritance.

(7x4)

2.
 - a) Define the term project. Also list necessary skills for project management.
 - b) Explain the steps in project planning.

(8+10)

3.
 - a) Describe any one technique of effort estimation for an information system development project.
 - b) Explain waterfall model in detail. Also list limitations of it.

(8+10)

4.
 - a) Explain systems prototype approach along with its benefits and limitations.
 - b) What is SCRUM? What is the main use of it?
 - c) Define extreme programming (XP) in brief.

(8+5+5)

5.
 - a) List and describe in brief different types of resource for project management.
 - b) What is an activity network? What purpose does it solve? Give an example of activity network.

(8+10)

6.
 - a) List various types of contracts for project development and explain any one type of contract.
 - b) Describe chief programmer team with proper diagram. Also mention advantages and disadvantages of it.

(8+10)

7.
 - a) Define product and process metrics for managing quality of software.
 - b) Describe in brief the levels of CMM.

(8+10)