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 problems with using Water Fall Model for Software Project Management?
b)   What is the importance of software quality?
c)   What was software crisis in early years of software development? Explain reasons.
d)   What is scope creep management?
e)   Describe the important features of spiral model.
f)   What are the benefits and drawbacks of the linear software development model for software?
g)   Describe the configuration management.

(7x4)

2.
a)   Explain the processes and project management. Write some features of process.
b)   Describe project planning. Why project planning is important throughout the software development life cycle?
c)   What are the features of Gantt Chart? Give an example.

(6+6+6)

3.
a)   Describe project effort estimation using qualifiable methodologies available.
b)   What are the challenges in Change Management and Configuration Management?
c)   Describe basic and intermediate COCOMO models of estimation.

(6+6+6)

4.
a)   Describe different characteristics of object oriented methodology. How is managing such project different.
b)   Describe the Putnam model of empirical software effort estimation.
c)   What is the importance of ISO 9001 in managing software quality?

(6+6+6)

5.
a)   Describe Software Quality Assurance Methodologies and Techniques.
b)   Describe Pareto analysis and its steps to identify the important causes.
c)   Why project contract management is so important?

(6+6+6)

6.
a)   What is a Function Point? How can the software size for the application be estimated in the function points?
b)   What is earned value management, explain in detail?
c)   What is the role of acceptance testing?

(6+6+6)

7.
a)   Explain the difference between risk management and risk assessment with an example.
b)   Explain organization structure and list different types of organization structure.
c)   Explain difference between resource allocation and resource leveling.

(6+6+6)