

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) Define and explain the roles and responsibilities of key stakeholders in project management.
 - b) Discuss any four project management challenges.
 - c) Explain steps for successful project planning.
 - d) Differentiate between deliverables and milestones.
 - e) Describe the importance of the project scope and product scope. What is project creep?
 - f) What is the goal of reliability?
 - g) What are different types of quality factors? Describe each of them.

(7x4)

2.
 - a) Explain function point analysis.
 - b) Describe the Putnam empirical software effort estimation model.
 - c) Describe SLIM, explain the processing in SLIM model.

(6+6+6)

3.
 - a) Explain the outsourcing in detail.
 - b) Describe the stages in contract management.
 - c) Discuss the levels of CMMI model.

(6+6+6)

4.
 - a) What is Statistical Quality Management, explain in detail.
 - b) Why quality audit is important, explain?
 - c) Explain the importance of quality control. Also discuss quality management principles.

(6+6+6)

5.
 - a) What is source Code Control System, discuss? List the steps involved.
 - b) What are the goals of software configuration management, explain?
 - c) What do you mean by revision control, discuss?

(6+6+6)

6.
 - a) Describe network planning methodology, and explain the steps involved.
 - b) Why do we need work break down structure in project management?
 - c) Explain the significance of risk management and list its principles.

(6+6+6)

7.
 - a) Discuss the advantages and disadvantages of PERT. Explain project scheduling uncertainty using PERT.
 - b) Define CPM. Draw a diagram to explain CPM.
 - c) What is resource allocation? What do you understand by resource cost analysis?

(6+6+6)