

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 do you understand by the term "earned value analysis" with respect to project tracking and configuration management?
(b) Justify that "Software Quality Assurance is an umbrella activity".
(c) Explain steps for successful project planning.
(d) Discuss the advantages and disadvantages of PERT.
(e) Differentiate between forward pass and backward pass with respect to project scheduling.
(f) Explain the merits and demerits of ISO 9001.
(g) Mention the differences between software product and processes. (7x4)

2. (a) What do you mean by Configuration Management? How does it help to ensure high quality of a software product? Also enlist the key benefits of configuration management.
(b) An organization is assessed at level 4 of SEI CMM, what can be inferred about the current quality practices of the organization? What does the organization have to do to reach SEI CMM Level 5? (9+9)

3. (a) Explain WBS (Work Breakdown Structure) with example.
(b) Define resource allocation. What do you understand by resource cost analysis? (9+9)

4. (a) Explain the significance of risk management and steps to identify the risk in the project.
(b) Enlist and explain the types of contract in project contract management. (9+9)

5. (a) Describe the various approaches to SQA.
(b) Define the following terms:
(i) Change control
(ii) Quality control
(iii) Acceptance Testing
(iv) LOC (lines of code)
(v) FP (function point)
(vi) Feature point
(vii) Critical Path (9+9)
6. (a) Explain COCOMO model for project cost estimation with a suitable example.
(b) Describe Risk Mitigation, Monitoring and Management Plan and also list out the primary objectives of it. (9+9)
7. (a) Describe SLIM and mention the advantages of using SLIM estimating model.
(b) Enumerate the risk management activities involved in software project management. Define RMM. (9+9)

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