

B5.1-R4 : SOFTWARE 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 is a project plan and what does it involve ?
 - (b) What is a project life cycle ?
 - (c) Describe briefly Spiral Model.
 - (d) What are the benefits of network activity diagram ?
 - (e) Explain reasons of project delays.
 - (f) Explain Pareto Analysis.
 - (g) What is the role of WBS (Work Breakdown Structure) in project management ? (7×4)
2.
 - (a) Explain event chain management and its principles.
 - (b) Explain various empirical estimation techniques used in Software Project Management.
 - (c) Explain in detail about Software Configuration Management. (6+6+6)
3.
 - (a) Assume that the size of an organic type software product has been estimated to be 32,000 lines of source code. Assume that the average salary of software engineers be ₹ 15,000 per month. Determine the effort required to develop the software product and the nominal development time.
 - (b) What is function point ? Explain its importance. What is function-oriented metrics ?
 - (c) Why is maintenance of a software important ? Discuss some of the problems that are faced during maintenance of software. (6+5+7)
4.
 - (a) Discuss the important issues that a SRS must address. List any three characteristics of a good SRS.
 - (b) Describe various risk mitigation strategies.
 - (c) Explain the types of COCOMO Models and give phase-wise distribution of effort and list out the limitation of COCOMO model. (5+5+8)

5. (a) Justify benchmarking process and explain the steps involved in it.
(b) Explain work break-down structure. How WBS is constructed in project and how to draw its diagram ?
(c) What do you mean by Organizational Structures ? List out the types of it and explain in detail ? (7+7+4)
6. (a) What are different kind of risk involved in IT projects ? Discuss common sources of risk in IT projects.
(b) Suggest two ways in which productivity could be improved to help bring the project in on schedule. Discuss how each of the methods you describe actually improves productivity. (9+9)
7. (a) Explain the Project Management Technique for Web based projects.
(b) How Gantt Chart is different from PERT Chart ? How to do tracking of Project using Gantt Chart and PERT Chart ? How baseline is important for project tracking and explain task dependencies. (9+9)

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