

B51-R4 : SOFTWARE PROJECT MANAGEMENT

NOTE :

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

Total Time : 3 Hours

Total Marks : 100

1. (a) What are the features of a good software ?
(b) What is Project ? What is software project management ?
(c) What is Project Management Life Cycle ? What are the four phases of the Project Management Life Cycle ?
(d) What is project cost management ? What are the benefits of project cost management ?
(e) Explain the relationship between People and Effort with project effort distribution.
(f) What is software metrics ? What are the two types of software metrics ? Explain.
(g) Write a short note on Risk Components and Drivers. (7x4)

2. (a) What is software ? What is software processes ? Explain Software Process Model.
(b) What is a Work Breakdown Structure (WBS) ? Why we use a WBS in Project Management ? What are the types of WBS ?
(c) What is empirical estimation techniques ? What are the types of it ? Explain. (6+6+6)

3. (a) What is waterfall model ? Explain when Waterfall Model can be used ? List the advantages and disadvantages of waterfall model.
(b) Explain the activities of Software Project Management. (9+9)

4. (a) Explain six general characteristics of automated estimation tools.
(b) What is Project Scheduling ? What are the Principles of Software Project Scheduling ?
(c) What is project closure in Project Management ? Explain the key components of Project Closure. (6+6+6)

5. (a) How to track object oriented design project schedules ? Explain in detail.
(b) What is risk in software management ? What are the types of risks ? Discuss the principles of Risk Management. (9+9)

6. (a) What is task network in software management ? What is the significance of it ? Explain.
- (b) What items should be kept in checklist to identify the risk ? How to assess overall project risk ?
- (c) How can we arrange scheduling for WebApp Projects ? Explain with example. (6+6+6)
7. (a) Explain Risk Mitigation, Monitoring, and Management (RMMM) plan.
- (b) Compute the function point, productivity, documentation, cost per function for the following data :
1. Number of user inputs = 24
 2. Number of user outputs = 46
 3. Number of inquiries = 8
 4. Number of files = 4
 5. Number of external interfaces = 2
 6. Effort = 36.9 p-m
 7. Technical documents = 265 pages
 8. User documents = 122 pages
 9. Cost = \$7744/ month
- Various processing complexity factors are: 4, 1, 0, 3, 3, 5, 4, 4, 3, 3, 2, 2, 4, 5.

(9+9)

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