

B5.1-R4 : SOFTWARE PROJECT MANAGEMENT

NOTE :

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

Time : 3 Hours

Total Marks : 100

1. (a) What are the five desirable characteristics of a good Software Requirements Specification (SRS) document ?
(b) Explain Cash flow forecasting.
(c) Explain the term Risk Mitigation.
(d) What are the different responsibilities of a Project Manager ? Explain it.
(e) Define Brook's and Parkinson's law for cost estimation.
(f) Explain the differences between CPM and PERT model.
(g) State the meaning of a software quality and its quality attributes. (7x4)
2. (a) Explain the different stages of a project management life cycle.
(b) Explain the concept of four P's with respect to Software Project Management.
(c) Describe the factors behind the delay in a software project. (6+6+6)
3. (a) Describe the term Risk assessment for managing the software risks in details.
(b) Explain the term "Work Breakdown Structure As A Project Management Tool". (9+9)
4. (a) Explain the differences between COCOMO-I and COCOMO-II software cost estimation techniques.
(b) Suppose that a project was estimated to be 400 KLOC. Calculate the effort and development time for the following models.
(i) Organic
(ii) Semidetached
(iii) Embedded (9+9)
5. (a) Just assume that a project deployed in a data center is vulnerable to fire (1 in 1000 chance of getting burnt by fire). What would be the risk exposure if a new computer of cost 50000.00 rupees is installed there ?
(b) Describe the role of a Function point analysis in project management.
(c) Explain the elements of Object-Oriented System. (6+6+6)

6. Explain the following terms :
- (a) Features of a good software
 - (b) Pareto Analysis
 - (c) Role of Project Closure Analysis

(6+6+6)

7. (a) Explain the term SSADM ? What are the advantages and disadvantages of SSADM ?
- (b) A company is conducting the feasibility study of a project. The software has to be given free to the customer and also has to be deployed at the customer site free of charge. However, there is a maintenance contract for 5 years and the cash flow that will accrue in this regard has been shown in the following table. The cost of development is shown as negative cash accrual.

Year	Cash
0	- 100000.00 INR
1	20000.00 INR
2	30000.00 INR
3	40000.00 INR
4	50000.00 INR
5	50000.00 INR

Find the following measures :

- (i) ROI
- (ii) Payback Period
- (iii) Net present value of the proposed project if the discount rate is 10% ?

(9+9)

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