Sl. No.

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**

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1. (a) Define risk analysis and risk monitoring. What are things to be considered in risk management ?

(b) What do you understand by software planning ? List the problems faced by software project manager in developing a high quality software project.

(c) What is functional point ? Mention its importance. Write any three advantages of function point analysis.

(d) Define development costs. What are the steps in cost-benefit analysis ?

(e) What do you understand by a project close out report ? Explain briefly.

(f) Explain the phases of a typical project life cycle with a neat diagram. Also mention some of the advantages for developing a project life cycle.

(g) Discuss why is project estimation so hard. Explain in short expert judgement technique of effort estimation.   **(7x4)**

2. (a) Define Work breakdown structure. Give difference between conventional and evolutionary WBS. List issues related to conventional WBS. How the work breakdown structure and product breakdown structure differs ?

(b) Explain forward looking approach for cost and schedule estimating process.

(c) What is a project plan and what does it involve ?   **(7+5+6)**

3. (a) Differentiate between (a) Problem-based estimation and (b) Process-based estimation.

(b) List at least six reasons for software project delays. How unrealistic deadlines are handled ?   **(9+9)**

4. (a) What are the features of a good software ? Explain.

(b) Explain how defects in a project are collected and audited ?

(c) How does the risk factor affect the spiral model of software development ?   **(6+8+4)**

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5. (a) What are the challenges in developing web based projects ? Is there any disadvantage of such projects ? If yes, explain briefly.

(b) Explain some of the graphical reporting tools used in Project Management.

(c) Define a software process. How do software myths affect a software process ?

(7+6+5)

6. (a) Explain the risk management process in detail. Also discuss what is risk register or log and what it contains ?

(b) What are the issues faced in managing projects based on Object-Oriented Methodology ? How are they addressed/resolved ? **(6+12)**

7. (a) What do you mean by empirical project estimation techniques ? Compare the basic COCOMO model with intermediate and detailed COCOMO model.

(b) What is a Pareto Chart ? Why should teams use Pareto Charts ? When should we use a Pareto Chart ? **(8+10)**

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