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.**

Total Time : 3 Hours   **Total Marks : 100**

1. **Do as directed :**
   (a) Explain the role of WBS (Work Breakdown Structure) in Project Management.
   (b) Explain project management triangle.
   (c) Define Software Quality Assurance.
   (d) Explain the various types of design defect in Software Development.
   (e) At which point in the SDLC, does the project management activity start ? When do they end ? List the important activities a software project manager performs during Project Management.
   (f) What is Risk Tracking ?
   (g) Describe any three techniques used in Project Scheduling.

   (7x4)

2. (a) Explain the stages of Project Management life cycle.
   (b) Explain COCOMO Model. How it can be used to estimate the cost of software project ?

   (9+9)

3. (a) Discuss four most important metrics for an object oriented systems. Explain their importance.
   (b) Explain how defects in a project are Discovery and Resolution.
   (c) What are GANTT Charts ? Explain with an example. What can be applications of GANTT chart ?

   (6+6+6)

4. (a) What is the role of software metrics in project management ?
   (b) Explain Pareto Analysis technique.

   (9+9)

5. (a) How Object-oriented methodology is different from Procedural methodology of Software Project Development ? Explain various issues of Project Management related to a project developed using Object-oriented methodology.
   (b) Describe the role of Project Closure Analysis in project control and closure.
   (c) What is Earned Value Analysis and why do we need it ?

   (6+6+6)

6. (a) Describe the importance of team leader in a software project. What are the major characteristics that a team leader should have ?

(b) What is the difference between Spiral Model and Prototype model in software engineering and also state some difference between Throwaway and Evolutionary prototyping.

(9+9)

7. (a) What is risk identification ? Describe the difference between risk components and risk drivers.

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

(c) What are the project management issues of Embedded system ?

(6+6+6)

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