10418

MCA/D—I3 _
SOFTWARE PROJECT MANAGEMENT
Paper—MCA-505(V)

Time allowed: 3 hours]   [Maximum marks: 80

Note: Attempt five questions in all. Question No. 1 is compulsory. In addition, attempt exactly one question from each unit.

(Compulsory Question)

1. (a) List the major responsibilities of a software project manager.   3
   (b) At which point of time in SDLC, do the project management activities,' start and end?   3
   (c) Why does a project manager need to estimate the size of the project?   3
   (d) What do you understand by sliding windows planning?   3
   (e) Differentiate between initial and final project schedule plans.   3
   (f) What is the difference between a macroscopic schedule and a detailed schedule?   3
   (g) Can a program be correct and still not reliable? Explain.   3

Unit—I

2. Discuss different Evolutionary Process Models along with their merits and demerits.   14

3. (a) Discuss various activities covered by Software Project management.   7

   (b) What are the causes of software crisis ? How does software engineering address them?   7

Unit—II

4. (a) Differentiate between top-down and bottom-up planning. Also discuss the advantages and disadvantages of both of them.   5
   (b) What is the role of escalations in project tracking? Explain.   4
   (c) What is project checklist? How is it useful in project schedule planning?   5

5. (a) What do you understand by project tracking ? Discuss the tracking meeting ground rules.   7
   (b) Explain when you should use" PERT charts and when you should use Gantt charts, while you are performing the duties of a project manager.   7

Unit—III

6. What are different categories of software development projects according to the COCOMO estimation model? Give examples of software project development projects belonging to each of these categories.14

7. What do you understand by software risks? Explain RMMM and RMMM Plan. Also discuss the objective of Risk Management.   14

Unit—IV

8. What do you understand by software configuration? What is meant by software configuration management? How can you manage software configuration? Why is software configuration management crucial to the success of large software product development projects?   14

9. (a) What according to you is a quality software project?   5
   (b) How do you track the progress of Object Oriented project?   4

(c) Why is it important for a development organization to obtain ISO 9001 certification?   5