



91883



12. a) Outline the spiral software development life cycle model with a diagram. What are strengths of the spiral model? What are the deficiencies of the spiral model? When to use the spiral model? (13)
- (OR)
- b) Present an outline of the COCOMO II software cost estimation model. (13)
13. a) Explain the various ways of risk identification and risk assessment. (13)
- (OR)
- b) Explain the critical path method with an example. (13)
14. a) i) What is earned value analysis? Explain with an example. (6)
- ii) Discuss the various ways of visualizing the project progress. (7)
- (OR)
- b) What is software configuration management? Outline the activities involved in software configuration management. (13)
15. a) What is a virtual team? Discuss how to successfully build and manage a virtual team. (13)
- (OR)
- b) Present an outline of Hackman and Oldham's job characteristics model. (13)

PART – C

(1×15=15 Marks)

16. a) Draw the critical path diagram for the tabulated activities. Identify critical path and the duration of the project.

Activity	Duration (days)	Immediate Predecessor
A	9	–
B	10	–
C	9	A
D	15	B, C
E	12	B
F	4	D
G	8	E
H	10	F, G

(OR)

- b) For the online bus ticket reservation system project,
- 1) Estimate the cost using COCOMO model.
  - 2) What are the risks involved?
  - 3) Draw the Gantt chart for the project.