

2125
B.E. (Computer Science and Engineering)
Seventh Semester
Elective - II
CS-704A: Software Project Management

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) Discuss the key areas covered under the management spectrum.
- b) What are the different parameters for measuring the quality of software project?
- c) What are the types of risks in Software Engineering?
- d) Discuss scheduling for WebApp.
- e) Explain various software effort estimation techniques. (5x2)

UNIT - I

- II. a) Explain the LOC-Based Estimation and FP-Based Estimation techniques with suitable examples.
b) Explain the make/buy decision in software project management. Why is it important? (2x5)

- III. a) Explain the SQA plan metrics and ISO/CMM metrics used for quality assessment.
b) Explain how earned value analysis (EVA) can be applied to track the cost and schedule performance of a software project. (2x5)

- IV. a) Differentiate between tangible and intangible benefits in cost-benefit analysis with examples from software projects.
b) What are the major activities involved in implementing an SQA process. (2x5)

UNIT - II

- V. Discuss the difference between risk mitigation, risk monitoring, and risk management in an RMMM plan. Discuss ISO and CMM standards. (5+5)

- VI. a) Discuss the role of an SCM repository in software development. Describe the advantages of using an SCM repository for version control and team collaboration.
b) Write a note on Reengineering Process Model. (2x5)

VII. Write note on the following:-

- a) Cost-benefit analysis change
- b) Control and version control
- c) Risk Identification and Quantification
- d) Reverse and forward engineering. (10)

x-x-x