

Code No:R164105E

R16

Set No. 1

IV B.Tech I Semester Regular/Supplementary Examinations, March - 2021

SOFTWARE PROJECT MANAGEMENT

(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any FOUR questions from Part-B

PART-A(14 Marks)

1. a) How do you analyze project characteristics? [2]
- b) Define Artifact. [3]
- c) Define object point in the context of software effort estimation. [3]
- d) List various categories of risks. [2]
- e) What is a status report in the context of project planning? [2]
- f) What does ISO 9016 reflect? [2]

PART-B(4x14 = 56 Marks)

2. a) Explain the goals of software project management. [7]
- b) Discuss the procedure to estimate the effort of each project activity. [7]
3. a) Discuss the pros and cons of the waterfall model. [7]
- b) What are the primary objectives of the inception and elaboration phases? [7]
4. a) Discuss the essential features of Albrecht's function point analysis. [7]
- b) Is publishing the resource schedule necessary for software effort estimation? Explain. [7]
5. a) Explain Boehm's risk engineering task breakdown in detail. [7]
- b) What is the procedure to identify resource requirements? [7]
6. a) Explain various steps involved in creating a framework for monitoring & controlling the progress of a project. [7]
- b) Discuss the critical path finding in resource scheduling. [7]
7. a) Summarize various procedural approaches to Quality Management. [7]
- b) Discuss the statistical process control capability maturity model. [7]

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Set No. 2

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Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any FOUR questions from Part-B

PART-A (14 Marks)

1. a) Write the differences between software projects and other types of projects. [2]
- b) What is meant by late risk resolution? [3]
- c) What are the factors that can affect the accuracy and efficacy of effort estimation techniques? [3]
- d) Which risks are concerned with respect to project schedule? [2]
- e) What is the need of performing earned value analysis? [2]
- f) How do you measure the quality of software project? [2]

PART-B (4x14 = 56 Marks)

2. a) Discuss various activities of software project management in detail. [7]
- b) Explain the procedure to identify activity risks. [7]
3. a) Explain the progress profile of a conventional software project with an example graph. [7]
- b) What are the modern process approaches for solving conventional problems? [7]
4. a) Is estimating by analogy is needed in software effort estimation? Explain. [7]
- b) Discuss the pros and cons of various Network planning models. [7]
5. a) Discuss the features of Amanda's risk exposure assessment. [7]
- b) Discuss various features of the Monte Carlo approach in detail. [7]
6. a) Discuss the challenges in defect tracking. [7]
- b) Why the cost schedule vital for a good software project? [7]
7. a) Explain various quantitative approaches to Quality Management. [7]
- b) Demonstrate the importance of Quality Process Planning. [7]

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Set No. 3

IV B.Tech I Semester Regular/Supplementary Examinations, March - 2021

SOFTWARE PROJECT MANAGEMENT

(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any FOUR questions from Part-B

PART-A (14 Marks)

1. a) What are the problems with software projects? [2]
- b) Write the purpose of the deployment set. [3]
- c) What is the purpose of Source Lines of Code (SLOC)? [3]
- d) List three significant categories of risks. [2]
- e) What is the purpose of milestone analysis? [2]
- f) Define software quality. [2]

PART-B (4x14 = 56 Marks)

2. a) Explain the ways of categorizing various software projects. [7]
- b) Discuss various objectives of software project management. Explain how these objectives can be achieved. [7]
3. a) Are Requirements driven functional decomposition is vital for a software project? Explain. [7]
- b) What are the top five principles of a modern process? Explain. [7]
4. a) Discuss various problems with over and underestimates in software effort estimation. [7]
- b) Discuss various features of the COCOMO model. [7]
5. a) Explain the five strategies of risk reduction in detail. [7]
- b) Discuss the advantages and disadvantages of PERT charts. [7]
6. a) Discuss the importance of Earned value Analysis and Defect Tracking in detail. [7]
- b) Scheduling resources can create various critical paths. Justify the validity of the statement. [7]
7. a) Explain the need for Quantitative Quality Management Planning. [7]
- b) Discuss the steps involved in Defect Prevention Planning. [7]

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Set No. 4

IV B.Tech I Semester Regular/Supplementary Examinations, March - 2021

SOFTWARE PROJECT MANAGEMENT

(Common to Computer Science and Engineering and Information Technology)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any FOUR questions from Part-B

PART-A (14 Marks)

1. a) What is the role of stakeholders in software project management? [2]
- b) Define universal function point. [3]
- c) How do you decide number of people required for a software project? [3]
- d) What is the purpose of risk projection? [2]
- e) Why is defect tracking vital for project monitoring and control? [2]
- f) Write any three steps to enhance software quality. [2]

PART-B (4x14 = 56 Marks)

2. a) Explain various challenges of software projects with examples. [7]
- b) Discuss the procedure to identify the project scope and objectives. [7]
3. a) Discuss various trends in improving software economics. [7]
- b) What are the general quality improvements with modern process models? [7]
4. a) Discuss the need for software effort estimation techniques. [7]
- b) Discuss the features of critical path analysis. [7]
5. a) How do you use PERT for evaluating the effects of uncertainty? [7]
- b) Discuss various factors taken into account while allocating individuals to tasks. [7]
6. a) Discuss various Project Monitoring & Control strategies available with examples. [7]
- b) Discuss the issues involved in Earned value analysis. [7]
7. a) Explain the need to set the Quality Goal. [7]
- b) Discuss various features involved in the Quality Plan of the ACIC Project. [7]