

CS587 Exam

St. Name: _____,
 Last Name, First Name

St. ID:

10 points for every question

Q1. Can the budgeted cost work scheduled and performed be used in predicting the completion of the project? Explain

Q2. Explain the difference between reviews and audits within the context of software project management and the software development process.

Q3. When building the project network diagram, can we schedule the testing phase to start after the design phase? Explain

Q4. For a software development organization that is CMM level-3, which method can be used for estimating activity effort/duration? Explain.

Q5. Who controls the design review meeting? What are the different metrics collected in the requirements review meeting?

Q6. From the perspective of software project management, software artifact review/inspection is only one aspect to ensure the quality of the software produced, Explain.

Q7. What are the constraints that may influence whether we can partition an activity or not?

Q8. What are the possible actions that the project manager and moderator might consider to take for the following outcomes of code inspections?

1. Rework and bug fixes turned out to require more than 50% of the original effort to write the code.

2. Rework and bug fixes turned out to require 15% to 20% of the original effort to write the code.

3. Rework and bug fixes turned out to require less than 5% of the original effort to write the code.

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Q9. Consider the following milestone table, what is the milestone trend chart that the following project follows? Name and draw the milestone trend chart.

Milestone	Expected Delivery	Actual delivery
Project Planning	1st month	on-time
Requirement Phase	2nd month	early 1 week
Analysis phase	3rd month	early 1 week
Design phase	4th month	early 1 week
Coding	5th month	early 2 weeks
Unit Testing	6th month	early 2 weeks
Integration Testing	7th month	early 2 weeks
Documentation	8th month	early 3 weeks
Installation/Training	9th month	early 3 weeks

Q10. Consider the following data; calculate the effort and duration required for every task, considering the following constraints:

1. An artifact is produced by only one author
2. Every review "meeting" task shall be carried by 5 engineers including the author
3. Every review "preparation" task shall be carried by 4 engineers excluding the author
4. Any "Rework" task can be executed by the author of the original task

Tasks	Amount of Work	Productivity	Effort	Duration
High Level Design (HLD)				
Write HLD Document	136 pages	2 page/Hour		
Review HLD Document				
Preparation for HLD Document		4 pages/Hour		
Review Meeting		6 pages/Hour		
Rework	24 defects	2 defect/Hour		
Low Level Design (LLD)				
Write LLD Document	76 pages	2 pages/Hour		
Review LLD Document				
Preparation for LLD Document		3 pages/Hour		
Review Meeting		6 pages/Hour		
Rework	43 defects	1 defect/Hour		
Testing				
Write Test Plan	102 pages	5 pages/Hour		
Review Test Plan				
Preparation for Test Plan		10 pages/Hour		
Review Meeting		15 pages/Hour		
Rework	35 defects	4 defects/Hour		