CPRE 329 Software Project Management

Final Exam, Spring 2017

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Student name:

University ID:

Directions

- This exam is open-book, open-note and open-laptop.
- Your answers need to be precise and clear.
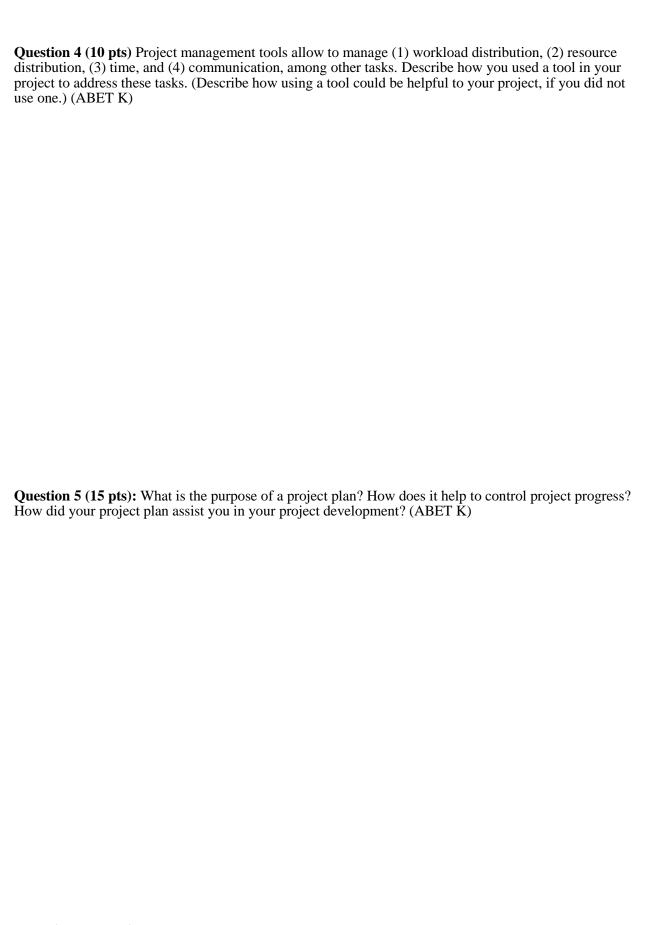- The exam is worth 100 points.

Question 1 (5 pts) The biggest risk for a project manager is:
  a. Hiring the wrong people.
  b. Not having a mitigation strategy for every possible risk.
  c. Allowing project members to take vacations during system testing.
  d. Doing the whole project in one iteration.
  e. Allowing some code to go unreviewed.

Question 2 (5 pts) The Capability Maturity Model, developed by the Software Engineering Institute uses a 5-level scale for what purpose?
  a. To evaluate the experience of developers.
  b. To evaluate how well a software system will satisfy its potential users.
  c. To estimate if a product is ready for widespread release.
  d. To evaluate the quality of a software development organization's process.
  e. To establish a standard measure of software quality.

Question 3 (5 pts): Why does open source software scare companies?

Question 4 (10 pts) Project management tools allow to manage (1) workload distribution, (2) resource distribution, (3) time, and (4) communication, among other tasks. Describe how you used a tool in your project to address these tasks. (Describe how using a tool could be helpful to your project, if you did not use one.) (ABET K)

Question 5 (15 pts): What is the purpose of a project plan? How does it help to control project progress? How did your project plan assist you in your project development? (ABET K)

Question 6 (15 pts): How to get an accurate project schedule? What do you need to consider to have a good schedule? (ABET K)

Question 7 (10 pts): Give 2 possible impacts of scope change on the delivery of projects. What strategies would you employ to mitigate these impacts?

Question 8 (15 pts): According to ISO 21500, a project involves several stakeholders. Information produced and consumed in the context of projects is communicated to/from the stakeholders. Map the source (s) and destination(s) of each information by connecting the dots. Keep in mind, the information is produced based on the responsibilities of the stakeholders and provided to only those who need it. (See the ISO 21500 for the stakeholder's responsibilities.)

SOURCE	INFORMATION	DESTINATION
	• Project estimate •	
	• Project budget •	
	• Proposal •	
	• Produced software •	
Project manager •	• Architecture •	• Project manager
Developer •	• User manual •	• Developer
Quality assurance experts •	• Database •	• Quality assurance experts
Sponsor •	• Used software •	• Sponsor
Steering committee •	• Project source code •	• Steering committee
Customers •	• Quality assurance plan •	• Customers
Suppliers •	•Quality assurance results•	• Suppliers
	• Retrospective report •	
	• Change management request •	
	• Employee evaluation reports •	
	• Project governance policies •	