

Practice Exam- Timed

Started: Oct 27 at 15:00

Quiz Instructions

THIS IS NOT FOR MARKS.

Question 1

0.5 pts

Based on the case study describing PayPal, choose which **one** of the following statements was a factor in the move from formal approaches to an agile approach in 2012.

- ☐ Agile is easier to learn than Formal approaches
- ☐ The PayPal employees were new to development.
- ☐ The planning requirements for formal approaches was hindering innovation.
- ☐ Agile is the best project methodology and formal approaches are obsolete.
- ☐ Formal approaches were not being followed and implemented correctly.

Question 2

0.5 pts

The orthognathic surgeons are using the virtual temporal simulator to train trainee surgeons. They have also started using it to practice surgeries if their are characteristics of the surgery that are unusual or different to a standard case. They realise that it would be useful to extend the simulator to include not only the temporal bone but also the jaw. The simulator was originally built using a Waterfall approach. The have asked the same development team to extend the system to include the jaw. Based on the facts given above- which of the following is **incorrect**.

- ☐ Agile is a good approach because Agile is better for extensions to an existing system.
- ☐ Waterfall is a good approach to use because the team is familiar with the process and it worked well for the initial development.
- ☐ The surgeons are stakeholders with high power, high interest.
- ☐ The goal of the project is to extend the functionality of the virtual temporal stimulator to include the jaw so that orthognathic surgeons can use it to practice surgeries on both the temporal bone and the jaw.
- ☐ A project charter should be created.
- ☐ All the answers are correct

Question 3**0.5 pts**

Which **one** of the following is NOT a risk transfer strategy

- ☐ Insurance
- ☐ Outsourcing
- ☐ Withdrawing
- ☐ Penalty clauses in a contract.

Question 4**0.5 pts**

Which of the following is **incorrect** when talking about cost estimation?

- ☐ Time, cost and effort are not related.
- ☐ A person month refers to the time spent by one person working on a task full-time.
- ☐ The Putnam-Nordern-Rayleigh curve shows the region where increasing effort does not translate to a decrease in time.
- ☐ The Putnam-Nordern-Rayleigh curve demonstrates the relationship between cost and time.
- ☐ Number of personnel can be calculated by dividing effort by time.

Question 5**0.5 pts**

You are a project manager for a major information systems project. Someone from the quality department comes to see you about a **quality audit** of your project. The team, already under pressure to complete the project as soon as possible, objects to the audit. You should explain to the team that the purpose of a quality audit is:

- ☐ To ensure that the project activities comply with the policies, procedures and processes of the organization or project.
- ☐ Check everyone is coding in Java.
- ☐ To ensure that the customer complies with the policies, procedures and processes of the organization or

project.

- ☐ To check the accuracy of costs submitted by the team

Question 6

0.5 pts

Process standards in software development refer to (choose the **best** answer)

- ☐ The standards that should be followed during software development
- ☐ The standards that define the organisation's processes
- ☐ The process for development and coding the product
- ☐ These apply to the which product the company choose to developed
- ☐ These standards apply to the development artefacts

Question 7

1 pts

Task ID	Task	Length	Dependant
A	Investigate website platforms	1 week	-
B	Discuss user interface requirements with client	3 days	-
C	Decide on a website platform	2 days	A, B
D	Design website	2 weeks	C
E	Add data to database	1 week	-
F	Create the website using the platform	3 weeks	D
G	Normalise and check data	1 week	E
H	Test website functionality	2 weeks	F, G
I	Make changes based on testing	1 week	H

J	Demonstrate to client	1 day	I
K	Make changes based on client testing	1 week	J
L	Deploy website	3 days	K

Which of the following is **incorrect**?

- ☐ The critical path is the longest path.
- ☐ If there is a delay in task H it will effect the length of the project.
- ☐ The project will take a maximum of 76 days.
- ☐ If there is a delay in task E of 3 days it will not effect the length of the project.

Question 8

1 pts

Category	Simple Function Count	Weight	Average Function Count	Weight	Complex Function Count	Weight	Sub total
Internal Logical File	6	3	1	4	2	6	
External Interface File`		4		5	2	7	
External Input	2	3		4		6	
External Output	5	7	2	10	2	15	
External Inquiries/Queries	2	5		7		10	

Unadjusted Total

A system has the above values- what is the unadjusted FP total and the adjusted FPs. Total VAF = 30

Unadjusted FP * (0.65 + 0.01 * VAF)

- ☐ Unadjusted FP = 141, Adjusted FP = 149

- ☐ Unadjusted FP = 140, Adjusted FP = 149
- ☐ Adjusted FP = 29, Unadjusted FP = 140
- ☐ Adjusted FP = 141.55, Unadjusted FP = 149

Question 9**1 pts**

A project manager is currently managing a manufacturing process improvement project which will be completed in five phases. The project manager has prepared the following chart to review the status of the project.

The Dates are given in the format *month/day*.

Task Name	Start Date	End Date	Duration (Days)	Planned Value	Actual Cost	Percent Complete
Define	8/1	8/31	30	\$ 1,000.00	\$ 1,200.00	100%
Measure	9/1	9/30	29	\$ 3,000.00	\$ 2,900.00	100%
Analyze	10/1	10/31	30	\$ 5,000.00	\$ 3,900.00	75%
Improve	11/1	11/30	29	\$ 9,000.00	\$ -	0%
Control	12/1	12/31	30	\$ 2,000.00	\$ -	0%

Based on the information provided, which of the following is **incorrect**?

- ☐ The tasks 'Define' and 'Measure' are complete.
- ☐ At the end of September (month 9), the project has cost the organisation \$4100.
- ☐ At the end of October (month 10), the project has cost the organisation \$9000.
- ☐ At the end of October (month 10), the planned value and actual cost are the same.
- ☐ The planned value of the project is \$20 000

The following are a number of short questions based on different scenarios. Please ensure that you justify your responses based on the scenario.

The following acronyms may be used in the questions

PM- Project Manager

PMP- Project Management Plan

SDLC- Software Development Lifecycle

SP- Story Points

The following questions refer to the Temporal Bone Surgery Virtual Reality Simulator system that was explored in Tutorial 1. The product is to be developed by a student team in a year-long project subject.

Recall the following key features of the system.

- (a) A feature that loads 3D temporal bone images.
- (b) An algorithm that builds a model and renders the model for viewing.
- (c) A feature that interacts with the model to simulate a virtual operation. The interaction to drill the virtual bone is simulated by a pressure sensitive drill-like device which gives the user the perception of touching real bone. The device updates the 3D model.
- (d) A feature that enables the virtual operation to be replayed.
- (e) A feature that enables the state of the virtual operation to be saved and reloaded.

Your Team Your team consists of the following members:

Steward Edward A hardworking information seeker that is experienced in architecture and in detailed design. He has good programming skills but is a dominating personality.

Audrey Count A follower and information giver who is an above average programmer and tester. She is practical, reliable and efficient.

Emily Gardner A Shaper who is an expert in requirements engineering, quality assurance and testing.

Michael Mac A free rider who tends to be unproductive and disruptive. He can write average quality code when given supervision and encouragement.

Answer the following questions about the Temporal Bone Surgery Virtual Reality Simulator.

In cases where the project description is not specific you can make reasonable assumptions and state your assumptions.

Question 10

2 pts

Identify a major risk for the project, and describe the impact the risk will have on the project or the product. Provide a strategy to handle the risk. State what type of strategy you are using.

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | ⋮

p



0 words



Question 11

1 pts

Choose a SDLC for the project and justify your choice using your discussion on risks.

Edit View Insert Format Tools Table

12pt ▾

Paragraph ▾

B

I

U

A ▾

 ▾

T² ▾

⋮

p



0 words



Question 12

4 pts

Design and justify a suitable team structure that is appropriate for your team and your choice of SDLC. Identify which role each team member will take.

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | ⋮

p



0 words

**Question 13****2 pts**

The original Virtual Surgery system was developed using the V-model. Unfortunately none of the developers on the original product are working on the project.

Jesse the PM is deciding which SDLC to use for the extension to the system. Using the facts given above, give one pro and one con for using a pure Waterfall approach.

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | ⋮

p



0 words



Question 14**3 pts**

The organisation has decided to use Agile for the project. Write a user story for requirement 1. Write two acceptance criteria for that user story.

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | ⋮

p



0 words



The orthognathic surgeons are using the virtual temporal simulator to train trainee surgeons. They have also started using it to practice surgeries if there are characteristics of the surgery that are unusual or different to a standard case. They realise that it would be useful to extend the simulator to include not only the temporal bone but also the jaw.

The hospital hire MedApp to extend the existing application. MedApp are a small software development organisation specialising in software for medical equipment. The owner is Mr Praheed. The representative of the hospital is Mr Doher. There are a number of stakeholders-

the neurologists headed by Mr Bleu,

the head of training, Dr Rashi,

the head of surgery, Mr Rui,

and the head of the orthognathic surgeons, Ms DuPlessis

Jesse is the PM for the MedApp team. Your developers are

Tim, Xiatong, Jian, Lucy.

Question 15**3 pts**

Jesse is creating the Project Management Plan, please provide a detailed stakeholder analysis.

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | ⋮

p



0 words

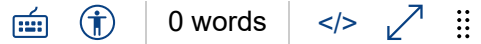
**Question 16****3 pts**

Using the stakeholder analysis create a communication plan.

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | ⋮

p

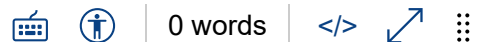
**Question 17****2 pts**

The organisation is thinking of using Scrum for the project and trying an autocratic leadership style. Is this type of style appropriate for a Scrum project. Justify your answer.

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | ⋮

p






**Question 18****1 pts**

Mr Praheed has moved to the Gold Coast and manages the company remotely. Comment on any changes that you would make to the communication plan for Jesse and Mr Praheed

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | ⋮

p

  | 0 words |   

Question 19






2 pts

Jesse is working at MedApp and wants to convince Mr Praheed to implement a Quality Assurance Process in a software project. List two advantages and two disadvantages of using a Quality Assurance Process for this software project.

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | :

p

  | 0 words |   

In November 1998, the United Kingdom (UK) passport department suspended the roll-out of a new computer system that was being implemented to streamline the creation, processing and distribution of new passports. The reason behind the suspension was due to a delay as as one critical component was not working as expected (the component was on the critical path of the project). Employees were moved away from dealing with customers to help process the new passports. Assume you were appointed as the Project Manager for this Passport project, and

the project was developed using a formal approach. You have identified the 'Public' as a external stakeholder.

Question 20





1 pts

Describe and justify the current level of engagement of the external stakeholder -the 'Public', that was identified in the scenario. Describe and justify the desired level of engagement of this stakeholder. Describe and justify your communication plan to change the level of engagement between the current and desired level of engagement of this stakeholder. (Note: the year is 1998).

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | :

p

  | 0 words |   ⋮

Question 21

1 pts





The employees* working in the passport office are internal stakeholders. What do you think their current level of engagement is? Describe and justify the desired level of engagement of these employees. Propose a communication plan between the project manager and these employees if project milestones and deliverables are not met. (Note: the year is 1998).

*These employees are front-office. They are dealing with the public and are responsible for taking the passport applications and adding them to the workflow for processing. They also interact with the public when a person comes to pick-up their passport.

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | ⋮

p

  | 0 words |   ⋮

The year is 2009 and the UK passport office (a government department) is looking to use biometric passports. A biometric passport is a traditional passport that has an embedded electronic microprocessor chip which contains biometric information that can be used to authenticate the identity of the passport holder. This would be an extension to the existing system.

Question 22






1 pts

Based on the negative publicity during the updated passport system project during 1998-1999, the Project Manager on this project is being very thorough and wants to manage the process better. The 'Public' has been identified as a stakeholder. Describe the desired level of engagement for the stakeholder identified (the 'Public') and how your communication plan can help achieve your desired level of engagement. (Note: the year is 2009).

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | ⋮

p

  | 0 words |   

Question 23






0.5 pts

Is the government an internal/external stakeholder for this project? Justify your response. Conduct a stakeholder analysis for this stakeholder (with justification). (Note: The year is 2009)

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | :

p

  | 0 words |   

Question 24

0.5 pts

Is the media a stakeholder for this project? Justify your response. Describe your communication plan with the media (with justification). (Note: The year is 2009)

Edit View Insert Format Tools Table

12pt ▾ Paragraph ▾ | **B** *I* U A ▾  ▾ T² ▾ | :

p



0 words



Question 25

1 pts

Is the task on budget?

Question 26

1 pts

After Bob has completed 12 hours of work, what is the actual cost?

Question 27

1 pts

How would the schedule vary, in terms of number of **hours** from the planned schedule?

Question 28

1 pts

Is the task on schedule? The task is behind/ahead of schedule?

☐ Behind

☐ Ahead

Question 29**1 pts**

However, Bob has only completed 20% of the task after 12 hours of work.

What is the earned value?

Given a software project has a budget, the following questions ask you to show how you would monitor and control costs.

Bob estimates 36 hours to complete a task and his hourly rate is \$125.

The planned value for this task is \$4500.

Question 30**1 pts**

How many hours do you estimate this task will take if Bob continues the current work rate?

Question 31**1 pts**

What is the actual cost of the task if Bob continues the current work rate?

No new data to save. Last checked at 12:04

Submit Quiz