

Midterm Module C

Due Oct 16 at 11:59pm**Points** 20**Questions** 20**Time Limit** 30 Minutes

Instructions

The multiple choice questions in this midterm module cover course modules 1 through 6. Please review these modules before you take the midterm, particularly the slides.

There are 20 questions. Once you begin the quiz you will have 30 minutes to complete it.

Attempt History

	Attempt	Time	Score
LATEST	<u>Attempt 1</u>	29 minutes	19 out of 20

Score for this quiz: **19** out of 20

Submitted Oct 14 at 1:18am

This attempt took 29 minutes.

Question 1

1 / 1 pts

What is an umbrella activity?



An activity that provides a method of planning and tracking some aspect of the project.



An activity that provides measurement tools to show how on track the timetable of the project is.

Correct!

An activity that provides software teams with a means of managing progress, quality, change, and risk.



An activity that provides tools that help the software project manager determine feasibility of the project.

Question 2**1 / 1 pts**

What is Brooks Law?

☐ 80% of the bugs occur in 20% of the code☒ Adding more programmers to a late project will make it even later☐ Document your design, not your code☐ What you produce, others will consume**Correct!****Question 3****1 / 1 pts**

Which of the following is NOT a question that is commonly asked by software engineers?

☐ Why can't we find errors earlier?☐ Why does developing software take so long?☒ Why is coding and testing so hard?**Correct!**

- ☐ Why is measuring progress so hard?

Question 4**1 / 1 pts**

Which of the following is NOT a category of the seven software application domains?

- ☐ embedded software
- ☒ legacy software
- ☐ system software
- ☐ web/mobile software

Correct!**Question 5****1 / 1 pts**

What type of maintenance is done the most?

- ☐ Adaptive
- ☐ Corrective
- ☒ Modification
- ☐ Preventative

Correct!**Question 6****1 / 1 pts**

In the traditional (Wikipedia) version of the Unified Process model, what phase takes up the most resources?

Correct!

- ☒ Construction
- ☐ Elaboration
- ☐ Production
- ☐ Transition

Question 7

1 / 1 pts

What would be the typical definition of a stakeholder?

Correct!

- ☒ A stakeholder has some vested interest in the outcome of the software project which can be financially, or workplace invested.
- ☐ A stakeholder is normally people involved at the managerial level of the business or the owner.
- ☐ A stakeholder is someone who provides the financial resources for the software project.
- ☐ A stakeholder is typically the end user of the product.

Question 8

1 / 1 pts

Which of the following is NOT a principle of agility?

- ☐ Adaptability to changing requirements.
- ☐ Continuous attention to technical excellence.
- ☐ Customer satisfaction.
- ☒ Ability to measure outcomes.

Correct!

Question 9

1 / 1 pts

In a Scrum process, how long should a typical Sprint last?

- ☒ 1-4 weeks
- ☐ 2-6 days
- ☐ 6-8 weeks
- ☐ between 2 weeks and 2 months

Correct!

Question 10

1 / 1 pts

Fill in the blanks. The _____ backlog is a prioritized list of requirements or features that provide business value for the customer whereas the _____ backlog is a list of items selected by the development team to be completed in upcoming sprints.

- ☐ Scrum and sprint

Correct!

- ☐ Scrum and product
- ☒ Product and sprint
- ☐ Sprint and development

Question 11**1 / 1 pts**

Which of the following is NOT a term or concept associated with Extreme Programming?

Correct!

- ☒ Executable architecture
- ☐ Pair programming
- ☐ Project velocity
- ☐ User stories

Question 12**0 / 1 pts**

Why is communication considered so important within in the software development project?

- ☐ Customers and end users need a method of communicating during the project that allows them input at appropriate times or they will not feel valued.

Correct Answer

Customers need to be able to communicate their requirements in a manner that can then be translated into the project fundamentals.



Effective communication between the customer and other stakeholders is important.

You Answered

Understanding the difference between the customer and end user is vital when starting a communication dialog; otherwise the project could have misunderstandings that could hinder project development.

Question 13**1 / 1 pts**

Which of the following is NOT one of the core principle of software engineering?



Be agile



Be ready to adapt



Focus on quality



Use appropriate data structures

Correct!**Question 14****1 / 1 pts**

Which of the following questions is NOT part of requirements validation?

Correct!

- ☒ Can the requirements be implemented in a user-friendly way?
- ☐ Do the work products conform to the standards established for the product?
- ☐ Have all software requirements been unambiguously stated?
- ☐ Have inconsistencies, omissions, and errors been detected and corrected?

Question 15**1 / 1 pts**

This requirements engineering task focuses on developing a refined requirements model that identifies various aspects of software function, behavior, and information.

- ☐ Inception
- ☐ Elicitation
- ☒ Elaboration
- ☐ Negotiation

Correct!**Question 16****1 / 1 pts**

Which of the following is NOT something Joshua Block (Effective Java) would recommend?

- ☒ Declare all local variables at the top of a method

Correct!

- ☐ If you override equals, then you must override hashCode
- ☐ Prefer for-each loops to traditional for loops
- ☐ Return empty Arrays or Collections rather than null

Question 17**1 / 1 pts**

Which of the following is the best way to declare and initialize a Java Map?

- ☐ `HashMap<String, Color> colorMap = new HashMap<>();`
- ☐ `Map colorMap = new HashMap<>();`
- ☐ `Map<String, Color> colorMap = new HashMap();`
- ☒ `Map<String, Color> colorMap = new HashMap<>();`

Correct!**Question 18****1 / 1 pts**

The state transition diagram

- ☐ depicts relationships between data objects
- ☐ depicts functions that transform the data flow
- ☐ indicates how data are transformed by the system
- ☒ indicates system reactions to external events

Correct!

Question 19**1 / 1 pts**

In Time Boxing, if you can't build all you intended during an iteration:

Correct!

- ☐ You must deliver beta (likely buggy) software
- ☒ You must leave out some functionality
- ☐ You must push back the delivery date
- ☐ You can either leave out functionality or push back the delivery date

Question 20**1 / 1 pts**

Which of the following is the best summary of what is done in refactoring?

Correct!

- ☐ Strengthening the design of the code and optimizing performance
- ☐ Strengthening the design of the code and optimizing performance while debugging
- ☐ Strengthening the design of the code while debugging
- ☒ Strengthening the design of the code without changing the functionality

Quiz Score: 19 out of 20