

CSC 290H5 F 2018 Midterm Test
Duration — 60 minutes
Aids allowed: none

Student Number: _____

UTORid: _____

Last Name: _____

First Name: _____

Lecture Section: L0101 and L0102
Test Version: Practice
Instructor: Lisa Zhang

*Do **not** turn this page until you have received the signal to start.*
(Please fill out the identification section above, **write your name on the back of the test**, and read the instructions below.)
Good Luck!

This midterm is double-sided, and consists of 25 multiple choice, and 2 short-answer questions. *When you receive the signal to start, please make sure that your copy is complete.*

- No aids are permitted for this midterm. # 1: _____/25
 - Answer multiple choice questions using the Scantron sheet provided, using a pencil. # 2: _____/ 6
 - There is a blank page at the end of the exam for rough work. # 3: _____/ 4
 - If you use any space for rough work, indicate clearly what you want marked. TOTAL: _____/35
 - **Do not remove any pages from the exam booklet.**
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Question 1. [25 MARKS]

Answer the following multiple choice questions on the scantron sheet using a pencil. Only select one best answer per question.

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. In the SMCR model of communication, what is an aspect of the “channel” (or medium)? | <ul style="list-style-type: none"> (A) Whether the audience finds the message humorous. (B) Whether the message is typed or hand-written. (C) The length of the message. (D) The age of the audience. (E) The age of the sender. |
| 2. Which of the following statements about writing is true ? | <ul style="list-style-type: none"> (A) You might have new thoughts and change your message as you write. (B) In 2018, syntax and grammar does not matter when writing. (C) Your first draft should be very similar to your final draft. (D) You should always write alone. (E) You should avoid using headings in your first draft. |
| 3. Out of the 10 candidates the company interviewed for a job, none of them had strong communication skills. Which of the following claims does not follow? | <ul style="list-style-type: none"> (A) Candidates should opt to take communication workshops. (B) Universities should do a better job teaching communication skills. (C) The company should look for candidates elsewhere. (D) The company should offer a communications workshop to current employees. |
| 4. A large technology company is sued for age discrimination. The company allegedly targeted older software developers during layoffs to keep a younger workforce. Which of the following explanations for the company’s action is the least convincing? | <ul style="list-style-type: none"> (A) Older developers tend to work on projects that are longer in duration, and therefore less impactful to the company. (B) Older workers who have not been promoted to management have worse performance reviews than younger workers who have not had an opportunity to be promoted. (C) Older workers with more experience are have more expensive salaries. (D) Managers are not adequately trained to detect their age related bias. |
| 5. Which of the following about bar charts is false ? | <ul style="list-style-type: none"> (A) Bar chart axis should start at 0. (B) Bar charts should never show negative values. (C) Bar charts are usually better than pie charts. (D) Bar charts should never be 3D. |
| 6. You are writing a book. Which of the following is a good milestones? | <ul style="list-style-type: none"> (A) Finishing the first draft. (B) Emailing your editor. (C) Selling 1,000 copies. (D) Writing the first word. |

7. A Work Breakdown Structure must include the following information.

- (A) The duration of each task.
- (B) Who is completing the task.
- (C) The dependencies between tasks.
- (D) All of the above.
- (E) None of the above.

8. You are building a personal website for a friend. Which of the following tasks should **not** appear in a Gantt chart?

- (A) Write the “about” page.
- (B) Make a Gantt chart.
- (C) Upload a headshot.
- (D) Buy the domain.
- (E) Design the website.

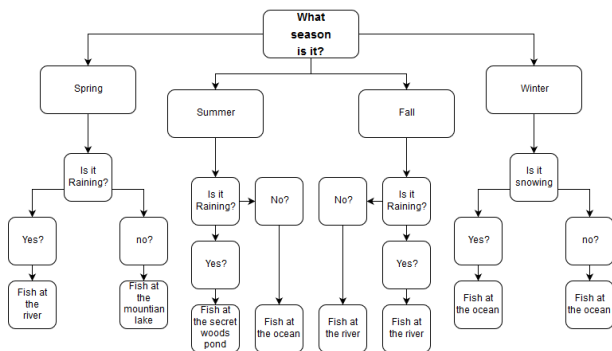
9. Which of the following about Project Management is **true**?

- (A) Project managers should not have to complete any tasks.
- (B) Tasks that are in scope usually take longer than those that are out of scope.
- (C) Tasks that are in scope should be completed before those that are out of scope.
- (D) Tasks that are out of scope should not be considered in the project at all.
- (E) Tasks that have dependencies should be completed before any other task.

10. You are writing a book. Which of the following is **not** a deliverable?

- (A) Your first draft.
- (B) Your plan describing what each chapter will be about.
- (C) Your final draft.
- (D) Your email to your editor.

11. What kind of UML diagram is this?



- (A) Object diagram.
- (B) Class diagram.
- (C) Activity diagram.
- (D) Use Case diagram.
- (E) None of the above.

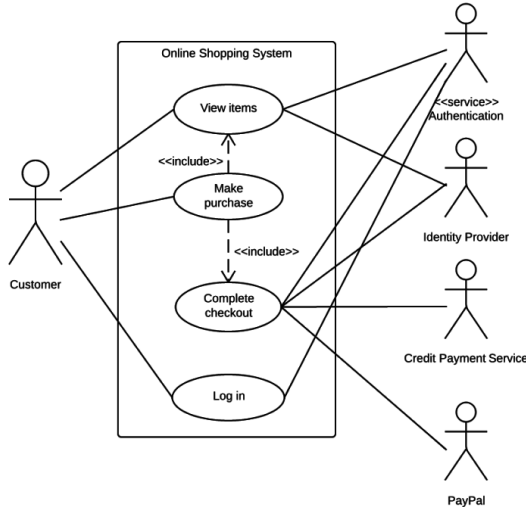
12. In the context of UML, a use case is ...

- (A) An interaction between the user and system that produces an observable result.
- (B) A special type of suitcase.
- (C) A sequence of actions that illustrates behaviours.
- (D) The specification of actions performed by a system yielding an observable result.
- (E) An interaction with any type of system.

13. What are guards in the context of UML Activity Diagrams?

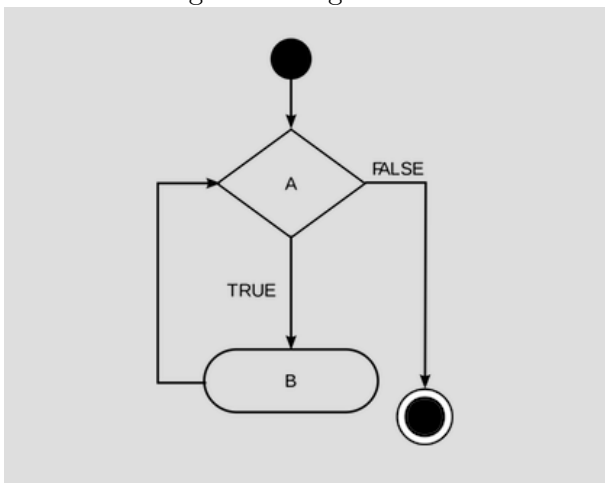
- (A) Guards mark the end of conditional behaviour.
- (B) Guards are labels denoting type of dependency.
- (C) Guards are directed lines between nodes.
- (D) Guards are decision nodes.
- (E) Guards are conditions showing which outbound flow to follow.

14. How many actors are present in the below UML diagram?



- (A) 1
- (B) 2
- (C) 3
- (D) 4
- (E) 5

15. Which of the following pseudocode corresponds to the following UML diagram?



- (A) A; IF(B) { A; }
- (B) A; WHILE(B) { A; }
- (C) WHILE(A) { B; }
- (D) WHILE(B) { A; }
- (E) WHILE(B) { B; A; }

16. In an Activity diagram, which of the following symbols represents a split of a single flow into two or more concurrent flows of activities?

- (A) Fork node.
- (B) Concurrent node.
- (C) Connector node.
- (D) Swimlanes.
- (E) Parallel node.

17. What kind of node is A in the above UML diagram?
- (A) Object Node.
 - (B) Class Node.
 - (C) Decision Node.
 - (D) Guard Node.
 - (E) Merge Node.
18. Which of the following use cases is not appropriate for a UML Use Case Diagram of an online book shop?
- (A) Submit an order.
 - (B) Cancel order.
 - (C) Register for an account.
 - (D) Search for a book.
 - (E) Enter credit card details.
19. In “The Pragmatic Programmer”, what is an example of “not knowing when to stop”?
- (A) Making your code run faster before any users complain.
 - (B) Optimizing your data storage when your boss asks you to.
 - (C) Building a version 2 of a software to include user requested features.
 - (D) All of the above
 - (E) None of the above
20. According to “The Pragmatic Programmer”, in which of the follow scenarios is it sensible for a programmer to blame someone else?
- (A) When a vendor decided not to sell their software to you.
 - (B) When a hard disk with your code on it crashes.
 - (C) When you fall behind on a project due to lack of resources.
 - (D) All of the above
 - (E) None of the above
21. In “Seven Reasons IT Projects Fail” what is important in project planning?
- (A) Assigning the right people to the right task.
 - (B) Make clear assignments to team members.
 - (C) When assignments don’t work, adjust roles as necessary.
 - (D) All of the above.
 - (E) None of the above.
22. Consider the sentence: “The companies would benefit more if they were to require other soft skills they are neglecting.” This sentence is wordy. Which of the following is the best rephrasing of the sentence?
- (A) The companies would benefit if they were to require other soft skills they are neglecting.
 - (B) The companies would benefit more from requiring the soft skills they are neglecting.
 - (C) The companies would benefit from requiring soft skills.
 - (D) The companies are neglecting soft skills.
 - (E) The companies would benefit from requiring the soft skills they neglected.

23. What is wrong with the following sentence: “The authors made an assumption that the businesses they chose would be representative of the entire IT industry”?
- (A) The phrase “made an assumption” can be replaced with the word “assumed”.
 - (B) The phrase “would be representative” can be replaced with the word “represents”.
 - (C) The phrase “would be representative” can be replaced with the word “represent”.
 - (D) Both (a) and (b)
 - (E) Both (a) and (c)
24. What is wrong with the following sentence: “It says that our documentation is wrong. Its not following the written principals.”?
- (A) The word “It” is ambiguous.
 - (B) The word “its” is incorrect.
 - (C) The word “principals” is incorrect.
 - (D) Two of (a), (b), (c) are true.
 - (E) All of (a), (b), (c) are true.
25. What is wrong with the following sentence: “The PEP8 style guide helps programmers write consistent code”?
- (A) The word “PEP8” should not be capitalized.
 - (B) The word “helps” should be replaced with the word “help”.
 - (C) There is a comma missing.
 - (D) The sentences is wordy.
 - (E) None of the above.

Question 2. [6 MARKS]

A shoe store owner wants you to build a computer system to manage sales and returns, and sent you the following email. Draw a UML Use Case Diagram of the computer system to summarize the email. Do not add any use cases that are not mentioned.

Hello,

I own a shoe store and want you to build a system to help me manage the shops sales and returns. The system shouldn't be too complicated. I have two employees, Amy and Bobby. who along with myself will need to be able to check out customers. We need to record which shoe was sold, and take payments (cash only). We do have a return period of 30 days, but I need to personally process all returns.

Shoe Store Owner

Question 3. [4 MARKS]

Give an example of four milestones for a project of your choosing.

Use this page for rough work.

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