Date:
Roll No: Name:

NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES (FAST), LAHORE CAMPUS

Software Engineering Technologies (CS527) – Fall 2018

Quiz No: 2   **Total Points: 5**
Total Time: 40 Mins.
Answer all multiple choice questions below by clearly marking one or more (if applicable) option(s) that best answer the question. Each question carries 0.25 points.

1. Which statement best describes Scrum?
   o   A complete methodology that defines how to develop software.
   o   A cookbook that defines best practices for software development.
   o   A framework within which complex products in complex environments are developed.
   o   A defined and predictive process that conforms to the principles of Scientific Management.

2. When might a Sprint be abnormally terminated?
   o   When it becomes clear that not everything will be finished by the end of the Sprint
   o   When the Development Team feels that the work is too hard.
   o   When the sales department has an important new opportunity.
   o   When the Sprint Goal becomes obsolete.

3. The three pillars of empirical process control are:
   o   Respect For People, Kaizen, Eliminating Waste
   o   Planning, Demonstration, Retrospective
   o   Inspection, Transparency, Adaptation
   o   Planning, Inspection, Adaptation
   o   Transparency, Eliminating Waste, Kaizen

4. Who is responsible for managing the progress of work during a Sprint?
   o   The Development Team
   o   The Scrum Master
   o   The Product Owner
   o   All of the above

5. What is the recommended size for a Development Team (within the Scrum Team)?
   o   Minimal 3
   o   3 to 9
   o   9 plus
   o   9

6. Upon what type of process control is Scrum based?
   o   Empirical
   o   Hybrid

o Defined
o Complex

7. The Product Backlog is ordered by:
   o Size, where small items are at the top and large items are at the bottom.
   o Risk, where safer items are at the top, and riskier items are at the bottom
   o Least valuable items at the top to most valuable at the bottom
   o Items are randomly arranged.
   o Whatever is deemed most appropriate by the Product Owner

8. A team is using a Kanban board and notices that many items are stacking up in a certain stage of the development process. How should they initially react in order to best manage flow?
   o Move items from design to delivery more slowly in order to spread out any potential problems.
   o Calculate the burn up rate.
   o Make sure there are explicit work in progress (WIP) limits at each column/stage of the development process and then experiment with tuning those across iterations.
   o Increase the number of feedback loops.

9. What does NOT belong to cornerstones of the agile manifesto?
   o Individuals and interactions over processes and tools
   o Working software over comprehensive documentation
   o Processes over people
   o Customer collaboration over contract negotiation
   o Responding to change over following a plan

10. What is important in all Scrum projects?
    A) Self-organization
    B) Clear hierarchies in the company
    C) Communication
    D) Continuous improvement
    o Choice-1: A, B, C, D
    o Choice-2: A, C, D
    o Choice-3: A, D
    o Choice-4: A
    o Choice-5: A, B

11. List <u>ANY 3 principles</u> of Agile Manifesto.   Also briefly explain (in 3-5 lines) each of the principles listed.

<u>(Points 1.25)</u>

12. List and briefly explain (in 2-4 lines) <u>ANY 4</u> design issues be considered for Distributed Computer Systems'.

<div align="right"><u>(Points 1.25)</u></div>