

## Sample MCQ I

There are 10 questions, answers are below. Do not look at the answers until you attempt all the questions.

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1. In the Killer Robot scenario from the first year, which of the following were, at least in part, consequences of using the Waterfall development process?

- A. The user interface was inappropriate.
- B. The user manual was unusable in an emergency.
- C. Testing was too little, too late and at the end results were faked.
- D. All of the above.

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2. What is refactoring?

- A. Rearranging the code in order to improve the design, without altering its functionality
- B. Modifying the code in response to changing requirements.
- C. Modifying the requirements specification in response to changing requirements.
- D. Modifying the design in response to changing requirements.

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3. What does it mean for an iteration to be timeboxed?

- A. It runs for a predefined period of time, generally between 2 and 6 weeks.
- B. If you don't complete everything in the plan for an iteration, you don't extend the iteration, you change the plan.
- C. Each iteration is split up into smaller sub-iterations called timeboxes.
- D. Iterations may differ in length provided each is completed within a specified period of time called a timebox.

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4. Which of the following is an artefact in the Unified Process?

- A. Domain modelling
- B. Elaboration
- C. A domain model
- D. Systems analysis

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5. You are interviewing a manager for the PSSM system. When would be the best time to ask the question "Please explain briefly what your main responsibilities are?"

- A. Fairly early, once you've established the manager's role.
- B. Immediately, as it will determine what further questions are most appropriate.
- C. At the end, as other questions are more important.
- D. Never, it's not a good question.

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6. Functional requirements are:

- A. Statements of services the system should provide, and how the system should react to particular inputs.
- B. Constraints on the services or functions offered by the system.
- C. Requirements that come from the application domain or the system and that reflect characteristics and constraints of that domain.
- D. Constraints under which it must operate.

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7. "The Global Positioning System (GPS) has to be available at any point on the planet where enough of the sky is visible." What sort of the requirement is this?

- A. Functional
- B. Non-functional
- C. Domain
- D. System

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8. The glossary for the software project is helpful in:

- A. Providing labels for the user interface
- B. Documenting the system
- C. Helping to provide a common understanding of the domain and the system
- D. All of the above

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9. You are designing a GPS-based navigation system for bus drivers to help them stay on time and on route. According to Larman's rule of thumb that a Use Case is "what you say when the boss asks what you're doing", which of the following would count as a Use Case?

- A. Turn left
- B. Drive Route
- C. Follow Diversion

D. All of the above

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10. After discussing a domain class diagram with users, which of the following will probably need to be updated as well as the diagram itself?

- A. The glossary
- B. The use cases
- C. The requirements document
- D. All of the above

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Answers:

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- 1. D
- 2. A
- 3. B
- 4. C
- 5. B
- 6. A
- 7. B
- 8. D
- 9. C
- 10. D

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