UNIVERSITY OF MANCHESTER
SCHOOL OF COMPUTER SCIENCE

Software Engineering sample MCQ

Sometime in January 2013

Time: Sometime

Answer ALL the multiple choice questions in section A and ONE question from section B.

For full marks your answers should be concise as well as accurate.

Marks will be awarded for reasoning and method as well as being correct.

The use of electronic calculators is <u>not</u> permitted.

Section A

Answer ALL the multiple choice questions in this section.

These questions will not be negatively marked.

1. 1.1 From a software engineering perspective, the main role of a user interface is to:
   (Choose the correct answer)

   A. Map from a user's mental model to the system model and back again;
   B. Be user friendly;
   C. Prevent errors in using the system;
   D. Speed up the interaction between user and the computer.

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   1.2 An intelligent pizza finder app is used by a restaurant customer to choose his or her pizza. the order is displayed to the pizza chef on a screen in the kitchen for him or her to process. A waiter picks up the pizza, which is labeled with the customer's table number, and delivers it to the customer. All orders are stored in the restaurant's pizza DB by the pizza finder app.

   From this scenario, the actors are:

   (Choose the correct answer)

   A. Customer and pizza chef ;
   B. Customer, waiter and pizza chef ;
   C. Customer, pizza DB and pizza chef ;
   D. None of the above.

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   1.3 For the intelligent pizza finder app described above, which of the following is not a legitimate use case:

   (Choose the correct answer)

   A. Choose pizza;
   B. Store pizza order;
   C. Deliver pizza to customer;
   D. Display pizza order.

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   1.4 to capture a view of a business process 'as is', the most appropriate UML diagram to use is:

   (Choose the correct answer)

   A. A structural class diagram;
   B. a Use case diagram;

C. An activity diagram;

D. Any of the above.

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1.5 eExams is software used to provide an on-line means of doing multiple choice questions. eExams should support automatic marking of multiple choice questions and do so with zero errors in that marking. Is 'zero errors during marking':

(Choose the correct answer)

A. A functional requirement;

B. A non-functional requirement;

C. Both a functional or non-functional requirement;

D. Neither a functional nor a non-functional requirement.

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