

2008 Paper 2 Question 7

Software Design

Software systems often incorporate structural representations of the application domain in which they operate. For example, a vehicle control system should be aware of the fact that the car has precisely four wheels. This kind of information must be *captured*, *encoded* and *tested* at each stage of the software design process. Using the number of wheels in a car as a simple example, describe relevant design activities and products at *each* of the following phases of a software project:

- (a) inception; [4 marks]
- (b) elaboration; [4 marks]
- (c) construction; [4 marks]
- (d) transition; [4 marks]
- (e) system operation. [4 marks]