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**THE BRITISH COMPUTER SOCIETY**

**THE BCS PROFESSIONAL EXAMINATION**  
**Advanced Diploma**

**USER INTERFACE DESIGN**

18<sup>th</sup> April 2000 - 10:00a.m. - 1:00p.m.

Answer THREE questions out of FIVE. All questions carry equal marks.

Time: THREE hours.

*The marks given in brackets are **indicative** of the weight given to each part of the question.*

1. How would a user interface for selling music CDs over the web differ from an application to monitor and control a Nuclear Power Plant? **(25 marks)**
  
2. Outline and discuss a principled design and evaluation strategy for the prototyping and development of an automated teller machine (ATM). **(25 marks)**
  
3. The format and content of information displayed on computer screens is very important in determining the success of a user's interaction with a system. Discuss the guidelines for optimising screen displays. **(25 marks)**
  
4. A number of computer users at your company have been complaining of RSI (Repetitive Strain Injury) and other health problems. Write a safety briefing, to be circulated to all employees, describing measures they should take in order to reduce the hazards of using computers at work. **(25 marks)**
  
5. Digital Television has produced a proliferation of channels that can be watched by the customer. This has led providers to change the way that customers select channels – for example using menus to select programmes from entertainment, movies, sport, etc. In addition, providers are also thinking about how customers can be given access to e-mail and other services, such as remote shopping, from their television.  
  
Describe the issues associated with providing this kind of interface to the customer and suggest improvements that could be made in the future. **(25 marks)**