**1.** A program designer is investigating the use of concurrent processing.

i.      Describe what is meant by the term 'concurrent processing'.

[2]

ii.     Give **two** benefits of using concurrent processing.

1

2

[2]

**2.** Taylor has written a game which uses concurrent processing.

i.      Describe what is meant by the term 'concurrent processing'.

[2]

ii.     Explain why concurrent processing is needed to allow multiple users to log in and interact with game elements at the same time.

[3]

**3.** OCR-Tickets wants to sell tickets for their concerts, plays and other events online. A customer should be able to create an account and then be able to log into their account. Once logged in, customers should be able to carry out actions such as setting their preferences and purchasing tickets.

OCR-Tickets have hired a software development company to create the system for them.

\* Discuss the need for concurrent processing in OCR-Ticket's system and the benefits and drawbacks of using this.

**[9]**

**END OF QUESTION PAPER**