2001 Paper 5 Question 5

Comparative Programming Languages

(*a*) Outline the main innovations that are in Simula 67 but were not in Algol 60, paying particular attention to Simula Classes.   [6 marks]

(*b*) Illustrate how Simula can be used to simulate a small restaurant with six tables, two waiters and small groups of customers arriving at random intervals. You need specify only the classes you would define. Most of the algorithmic details may be omitted.   [6 marks]

(*c*) Discuss to what extent Simula has been made redundant by the development of modern object-oriented languages such as Java.   [8 marks]