2003 Paper 10 Question 12

Software Engineering and Design

(*a*) Describe the roles of (*i*) use case diagrams and (*ii*) collaboration diagrams in a UML design. [4 marks]

(*b*) How would the role of *each* vary in a project managed according to (*i*) the waterfall model and (*ii*) user-centred design? [4 marks]

(*c*) Which of the management models in part (*b*) best describes the Cambridge University CAPSA project? Why? [2 marks]

(*d*) What information is carried between these diagrams in the design process? Illustrate with reference to a researcher requesting University approval to purchase a disk drive from an online catalogue. Include suitable diagrams in your answer. [10 marks]