

Answer all questions.

Q2. (200 words.) Discuss the security and availability requirements for a system and business methods intended to be used by a company acting as a *trusted third party* which will charge customers for certificating public cryptography keys to be used within a stocks and shares trading network involving many individual shareholders and many stockbrokers. **[30 marks.]**

Answer all questions.

Q3. (150 words) If the business described in Q2 also provides a *key revocation service*, discuss additional system requirements for this. Discuss limits to the guarantees which should be offered by the operator to users of a key revocation service. **[20 marks]**

Marks awarded: /20

Q4. (200 words) Based upon the purposes and the file access requirements of a named Linux program requiring *setuid* permission state why *setuid* is needed, and discuss the differences between discretionary access control (DAC) and mandatory access control (MAC) as multi-user or multi-service access partitioning operating system platform security approaches. **[30 marks]**

Answer all questions.

Q4 answer

Marks awarded: /30

Total marks for assignment 1.1 /100