



Tuesday 27 February 2018
09:30 – 12:00

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1 a) Identify **three** components of a computer system.

(3 marks)

b) Explain one function performed by **each** of the components identified in Question 1a).

(6 marks)

2 Explain **three** key functions of Operating Systems.

(6 marks)

3 Convert the following Decimal numbers to 8 bit Binary numbers.

- 55_{10}
- 116_{10}

(2 marks)

- 4 a) Identify **two personal** risks and **one organisational** risk that are associated with digital engagement.

(3 marks)

- b) For **each** of the **three** risks identified in Question 4a), describe how the risks can be mitigated.

(6 marks)

- 5 a) Identify **two** principles of the UK Data Protection Act 1998. (2 marks)

- b) For one of the principles identified in Question 5a), explain how it impacts on the use of IT. (2 marks)

- 6 a) Identify **two** user interactions that can compromise security with a business computer system. (2 marks)

- b) For **each** of the actions identified in Question 6a), explain what an organisation can do to try and prevent them from happening. (4 marks)

- 7 a) Identify **two** physical security methods that can be implemented to mitigate risks in an IT system.

(2 marks)

- b) For **each** of the security methods identified in Question 7a), explain how they can be used to secure an IT system.

(4 marks)

- 8 a) Identify **two** hardware backup devices. (2 marks)

- b) Explain one disadvantage encountered in everyday use for **each** of the backup devices identified in Question 8a). (4 marks)

- 9 Describe **two** types of 'restore from backup'. (4 marks)

- 10 a) Identify **four** methods that can be used to gather information from users in order to provide IT support.

(4 marks)

- b) Describe one advantage of using each of the **three** methods identified in Question 10a) within a large organisation.

(6 marks)

- (9 marks)

[illegible]

(9 marks)

[illegible]