



UNIVERSITY OF GHANA

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BSc. FIRST SEMESTER EXAMINATIONS: 2017/2018

DEPARTMENT OF COMPUTER SCIENCE

CSIT425: COMPUTER CRIME, FORENSICS AND AUDITING

INSTRUCTIONS

ANSWER ANY THREE OF THE QUESTIONS FOR 20 MARKS EACH

TIME ALLOWED: *TWO AND A HALF (2½) HOURS*

[60 MARKS TOTAL]

Q1.

a) Define computer forensics and with the aid of a diagram, briefly explain the five phases that are used in digital forensic investigation process?

[5 MARKS]

a) Using the EOCO-vrs-GFA 2013 case study, explain why Computer evidence must be Authentic, Accurate, Complete and Convincing to juror, and in conformity with common law and legislative rules and admissible at court.

[5 MARKS]

a) Explain the theory behind the searching process in the evidence searching phase.

[5 MARKS]

a) After you have taken steps to preserve the data, explain search techniques in acquisition phase.

[5 MARKS]

Q2.

Computer Forensics students must understand the laws and regulatory Frameworks with their particular jurisdiction. State and briefly explain the following Legal Acts and who they are aimed at.

- a) Section 1 of the Computer Misuse Act 1990
- b) Electronic Transactions Act 2008
- c) The Fraud Act 2006
- d) Section 1 of the Theft Act 1968

- e) Sale of Goods Act 1979
- f) Supply of Goods and Services Act 1982

[20 MARKS]

Q.3

Use any case studies such as the Roman Case study, Two Nigerians Verses Ghana Arm Forces cases as examples to answer the questions:

- a) Explain what Live Analysis is and the methodologies used in evidence gathering
- b) Explain what Dead Analysis is and the methodologies used in evidence gathering
- c) Use the PICL guidelines to carry out digital forensic investigations process?
- d) A Cryptographic Hash should be calculated on data saved during a dead or live analysis. Explain why.

[20 MARKS]

Q4.

- a) In Relation to Information Technology Contracts, define TERMS OF CONTRACT and with examples, explain the concepts of implicit and explicit terms.

[10 MARKS]

- a) In relation to Computer Misuse Act 1990, briefly explain with examples the Latin name: mens rea and actus reus of the offences.

[10 MARKS]

