



(Knowledge for Development)

KIBABII UNIVERSITY COLLEGE
(KIBUCO)

UNIVERSITY EXAMINATIONS
2015/2016 ACADEMIC YEAR

SUPPLEMENTARY/SPECIAL
YEAR THREE SEMESTER ONE
EXAMINATIONS

FOR THE DEGREE OF
BACHELORS OF SCIENCE
(INFORMATION TECHNOLOGY)

COURSE CODE : BIT 412
COURSE TITLE : INFORMATION SYSTEMS
AUDIT

DATE: 29/09/2017 **TIME: 8.00A.M. – 11.00A.A**

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO

QUESTION ONE (COMPULSORY) [30 MARKS]

- (a) Define the following terms. [4 Marks]
- (i) Information security
 - (ii) Information assurance
 - (iii) Threats
 - (iv) Vulnerabilities
- (b) Identify any five objectives of auditing. [5 Marks]
- (c) Distinguish between financial audit and IT audit. [2 Marks]
- (d) Outline any four areas that IT audit should cover. [4 Marks]
- (e) Describe any four desirable qualities of data. [8 Marks]
- (f) Explain the roles of an IS auditor. [4 Marks]
- (g) "Information Systems Audit is an ongoing process". Discuss. [3 Marks]

QUESTION TWO [20 MARKS]

- (a) When auditing logical security, the auditor should investigate what security controls are in place and how they work. Explain any three key points in auditing logical security. [6 Marks]
- (b) Network security is achieved by various tools. Other than **encryption** describe any two such tools. [4 Marks]
- (c) The primary criticism of SAS 99 is that many procedures are suggested rather than required. Discuss. [4 Marks]
- (d) Insurance policies are usually obtained to cover resources in an organization. Identify five such resources. [5 Marks]
- (e) What is computer forensic? [1 Mark]

QUESTION THREE [20 MARKS]

- (a) Distinguish risk and threat. [2 Marks]
- (b) Explain four benefits of business continuity planning. [8 Marks]
- (c) Identify the eight phases of business continuity planning. [8 Marks]
- (d) Audit trail is an inevitable tool in network security. Discuss. [2 Marks]

QUESTION FOUR [17 MARKS]

- (a) Identify the stages of System Development Life Cycle (SDLC). [6 Marks]
- (b) Some of the activities that take place during system design and development are technically complex. If the auditor intends to carry out detailed reviews of, for example, logical design, it will probably be necessary either to employ expert assistance, or to undertake training in the particular technical skills required. List any six general questions that the auditor will need to consider for quality control. [6 Marks]
- (c) Describe the following types of backups. [8 Marks]
- (i) Full backup
 - (ii) Differential backup
 - (iii) Incremental backup
 - (v) Mirror backup

QUESTION FIVE [17 MARKS]

- (a) Identify any four ways in which a hacker can get access into an information system. [4 Marks]
- (b) Describe the OBASHI methodology. [2 Marks]
- (c) Describe the six layers of the OBASHI framework. [12 Marks]
- (d) Explain the benefit of using biometric systems as a method of identification. [2 Marks]