

OFFICE OF THE DEPUTY VICE CHANCELLOR (ACADEMICS, RESEARCH & EXTENSION)

UNIVERSITY EXAMINATIONS **2013/2014 ACADEMIC YEAR**

FOURTH YEAR FIRST SEMESTER EXAMINATION

FOR THE DEGREE OF

BACHELOR OF SCIENCE IN INFORMATION SCIENCES

COURSE CODE:

INS 410

COURSE TITLE:

MANAGEMENT INFORMATION SYSTEMS

DATE:

9TH OCTOBER, 2013 TIME: 2.00 P.M. – 5.00 P.M.

INSTRUCTION TO CANDIDATES

ANSWER QUESTION ONE AND ANY OTHER TWO

THIS PAPER CONSISTS OF (3) PRINTED PAGES

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[30 Marks] QUESTION 1 COMPULSORY

- (a) The architecture of a multi-tier computing environment typically includes a client, server, and corporate information systems linked to databases. Sketch a diagram to illustrate such an architecture showing how an organization can utilize communications networks to interconnect its management information systems. [10mks]
- (b) Explain ANY FIVE security measures that an organization must take if it were to link the architecture you have explained in 1 (a) above to the Internet. [10mks]
- (c) An organization utilizes an Inventory Control Information System to capture incoming data on items that have been procured. The captured data is used to provide information about items which are available in the inventory master file. The system also supports online enquiry capability as well as producing management reports.

Required:

Model a design of the system described, clearly showing the essential components of the system, and the flow of data/information using directional arrows.

[10mks]

QUESTION 2

[20 Marks] Operation manger

(a) Identify and explain any four ethical concerns associated with the use of information systems in organizations.

[10mks

(b) Develop a code of computing ethics for an organization using the ethical concerns you

have explained in (a) above

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QUESTION 3

[20 Marks]

(a) Following a successful trial, an insurance company is considering using teleworking for most of its staff. From an MIS perspective discuss any five technical issues that would need to be considered before full implementation of teleworking.

(b) With suitable examples, discuss the types of reports that might be requested from an MIS by managers in a large bank, detailing the purposes for which such reports can

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QUESTION 4 [20 Marks]

- (a) Examine any **five** benefits of using the Internet as a strategic management information tool [10mks]
- (b) Analyze, using suitable examples, any five factors that a banking institution should take into account when developing its information systems policy. [10mks]

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QUESTION 5

[20 Marks]

- (a) There has been widespread application of expert systems in organizations in the recent past. Examine any four possible reasons for this trend.
- (b) You have been recruited by a company that has recently suffered a major MIS project failure. As an information systems consultant, explain, with justification any five possible reasons why the MIS project failed. [10mks]