JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

School of Informatics and Innovative Systems

MSC. Information Security and Auditing

KISUMU CAMPUS
Academic Year: 2022/2023
Year Two Semester One

Course Code: IIT 5213

Course Title: IT Security Planning Strategies and Project Management

Stream: Information Security and Auditing

TIME: 3 H0URS

Instructions:

This paper contains FIVE questions

Answer any THREE questions

QUESTION ONE 20 MARKS

a) Information Systems Planning has been defined as the ability to formulate the strategy of a business with the help of tools, techniques and methodologies used to support organizations in identifying potential opportunities to develop Information Systems (IS) with greater competitiveness. Information Systems Planning has been proposed as an integrated process which contains specific phases.

1. Identify the 5 phases involved. (5 marks)
2. Briefly explain the phases identified in one (1) above. (5 marks)

b) An organization needs a comprehensive written security plan to minimize exposure to all threats and risks. Security is the responsibility of every employee within the organization, not just those working in IT –related sections. Which critical sections of security should be captured in the security plan? (10 marks)

QUESTION TWO 20 MARKS

a) Cyberlinks is a new company that has begun its operations in western region. You have been asked to lead a team of IT professionals to formulate strategic security plan. Briefly discuss the 8 steps contained in the methodology used in the strategic formulation.
(16 marks)

b) Briefly explain the following terms. (4 marks)
1. Policy
2. Strategy
3. Programme
4. Project

QUESTION THREE 20 MARKS

a) Why is it important to incorporate the IT plan into the overall corporate plan? (6 marks)

b) Classifying information can help ensure the correct level of protection will be defined and implemented. Identify and explain the broad categories of information. (8 marks)
c) Why does IT audit plan based on the results of the risk assessment important? (6 marks)

QUESTION FOUR 20 MARKS

a) Discuss the relationship between project, program, and portfolio management and the contributions each makes to enterprise success. (6 marks)
b) Describe recent trends affecting IT project management, including globalization, outsourcing, virtual teams, and agile project management.
(7 marks)

c) Explain project execution, its relationship to project planning, the factors related to successful results, and tools and techniques to assist in directing and managing project work. (7 marks)

QUESTION FIVE 20 MARKS

a) Discuss the process for creating a work breakdown structure using the analogy, top-down, bottom-up, and mind-mapping approaches (7 marks)

b) Describe how project managers use network diagrams and dependencies to assist in activity sequencing. (6 marks)

c) Describe quality management planning and how quality and scope management are related. (7 marks)