Kiriri Women's University of Science and Technology

Information Systems for Project Management

2018/ 2019 Jan – April Exam

Section One: Compulsory (30 marks)

A. Outline three reasons why a project management information system should be used by a project manager. **(6 marks)**

B. Define the following terms: **(4 marks)**

   i. EVM controls

   ii. Pert Chart

   iii. Work breakdown structure

   iv. Gantt Charts

C. Before purchasing a project management information system, there are several factors that should be considered. Explain any four factors. **(8 marks)**

D. Explain the following features of a project management information system. **(8 marks)**

   i. Communication

   ii. Performance analysis

   iii. Integration and customization

   iv. Project Portfolio management

E. State any two examples of information systems for project management. **(2 marks)**

F. Explain the following components of the budgeting and cost management feature of a project management information system. **(2 marks)**

   i. Cost to completion

   ii. Time and expense reporting

Section B: Optional (Answer any two questions)

Question Two (20 marks)

A. In detail explain five advantages of using project management information systems.

(10 marks)

B. In detail explain five disadvantages of using project management information
    systems.   **(10 marks)**

Question Three (20 marks)

A. State four outputs of a project management information system.   **(4 marks)**

B. What is a web based project management information system.   **(2 marks)**

C. Explain the key benefit of using a web based PMIS.   **(2 marks)**

D. In designing project management information system there exists some issues that
    have to be spelt out clearly. Outline any four of this key issues. **(8 marks)**

E. Explain any two attributes of a project.   **(2 marks)**

Question Four (20 marks)

A. Integration of various independent datasets through various processing modules
    enables high control of projects through a PMIS. Explain the importance of the
    following data sets.   **(10 marks)**

    a. Cost dataset

    b. Job card dataset

    c. Resource dataset

    d. Vendor dataset

    e. Network dataset

B. Differentiate between horizontal integration and vertical integration in project
    management information systems.   **(4 marks)**

C. Explain any three types of information systems.   **(6 marks)**

Question Five (20 marks)

A. Outline the five components that must come together in order to produce a computer-
    based information system.   **(10 marks)**

B.   State any four factors that can be used to rate the quality of a project management
    information system.   **(4 marks)**

C. Explain any three PMIS technology levels.   **(6 marks)**