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**KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY  
UNIVERSITY EXAMINATIONS, 2020/2021 ACADEMIC YEAR  
FOURTH YEAR, FIRST SEMESTER EXAMINATION  
FOR THE DEGREE OF BACHELOR BUSINESS INFORMATION  
TECHNOLOGY**

**KBI 2401 - INFORMATION SYSTEMS OF PROJECT MANAGEMENT**

Date: 16<sup>th</sup> December, 2020

Time: 8.30am – 10.30am

**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE (30 MARKS)**

- a) Define a project with help of example. [6 Marks]
- b) Explain briefly the Project Life Cycle and the phases involved with the help of an example. [10 Marks]
- c) Explain with the help of a diagram the concept of the Triple constraint and its effect on a project. [6 Marks]
- d) Describe the four quantitative factors that are used for project selection, which tend to focus on cost and explain each one of them with the help of an example. [8 Marks]

**QUESTION TWO (20 MARKS)**

- a) Explain in detail the Critical Path with the help of an example and demonstrate ways of speeding up the schedule whilst defining the term “Crashing”. [10 Marks]
- b) Explain briefly the project manager’s role and responsibilities. [10 Marks]

**QUESTION THREE (20 MARKS)**

- a) Explain the criteria you would use for selecting project team members as a project manager. [10 Marks]
- b) Project organizational structure can be either hierarchical structure, matrix structure or project structure.
- i) Describe each of the above structures.
  - ii) Give two advantages and two disadvantages of each.
- [10 Marks]

**QUESTION FOUR (20 MARKS)**

- a) Draw a network diagram for the following set of activities.

Activity	Predecessors	Duration in working days
A	Start None Project	5
B	A	15
C	A	5
D	A	10
E	C and D	15
F	B and E	5
G	F	5

[12 Marks]

- b) A work breakdown structure (WBS) is a dynamic tool which divides (segments) the project into parts before starting a project. It is updated as the work proceeds, particularly as minor changes affect the task analysis. Give reasons why you would segment a project.

[8 Marks]

**QUESTION FIVE (20 MARKS)**

Differentiate between a project sponsor and a project steering team by outlining the responsibility of each in a project.

[20 Marks]