

UNIVERSITY OF FORT HARE

GIS PROJECT MANAGEMENT
GIS 325

SUPPLEMENTARY EXAMINATION

JANUARY

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Time: Three (3) Hours

Subject: GIS 325

Marks: 100

This paper consists of 4 pages including the cover page

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INSTRUCTIONS

- Answer *all* questions on the answer sheet provided

SECTION A: PROJECT MANAGEMENT (70)

Question One

Define the following terms:

- (a) Project
- (b) Scope
- (c) Project Management
- (d) Project plan
- (e) Dependencies

[5]

Question Two

Using information provided in table 1, match the word to its description by inserting the correct letter in the match column as done for the example.

Table 1:

ID	Word	Description	Match
A.	Product	Save Money, Reduce Time, Improve Efficiency, Reduce Risks, Management Control	C
B.	Work Based Structure (WBS)	Occurs when a single node is followed by two or more activities.	
C.	Benefits of project management	uses the results of the other time management processes to determine the start and end date of the project and its activities	
D.	Schedule development	Hierarchical representation of all the work of the project	
E.	AOA burst	Ongoing efforts, and may consist of multiple projects managed in a coordinated fashion	
F.	Mandatory dependencies	any number of things that are created, from automobiles to websites	
G.	Program	Inherent in the nature of the work; legal requirements, procedural requirements	

[5]

Question Three

Describe the five elements necessary for successful project execution

[5]

Question Four

Draw a clearly labelled illustration of a project life cycle. In addition, describe the processes involved in each step

[5]

Question Five

Name and describe in detail the five components of the work breakdown structure.

[10]

Question Six

Explain in detail the three major tasks of project closure

[9]

Question Seven

Given the schedule in table 2 for a GIS project, describe each of the following terms:

1. EET [1]
2. LET [1]
3. TPT [1]
4. Slack Days [1]
5. Critical path [1]

[5]

Table 2:

ID	Task / Activity	Duration (Days)	Dependencies
A	Preparation	7	-
B	Data Collection	5	A
C	Data Input	6	A
D	Data Transformation	3	A
E	Data Editing	7	B
F	Data Manipulation	9	C
G	Data Analysis	13	D
H	Data Output	5	E, F, G

Question Eight

Explain the five planning time management processes.

[10]

Question Nine

Using diagrams, describe the four dependency types included in activity sequencing

[16]

SECTION B: RESEARCH PROJECT TECHNIQUES (30)

Question Ten

You are contracted as a GIS specialist to identify the best site to build a shopping mall. But before you start any work and before the stakeholder begin any expenses; you are requested to write a short proposal. Aligned to this project task, provide:

1. four objectives [2]
2. a justification of why they should focus around the stated objectives [3]

Your employers are interested in knowing how you will achieve this assignment. Provide in detail:

3. A methodology [7]
4. A concise and clear description of the methods you will use to identify the best site [3]

Question Eleven

1. Differentiate between methodology and methods section in a research project. [4]
2. Explain three key aspects of a literature review [6]
3. Differentiate between justification of a study and problem statement [5]

[15]

!!!The End!!!