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KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY UNIVERSITY EXAMINATION, 2022/2023 ACADEMIC YEAR FIRST YEAR, SECOND SEMESTER EXAMINATION FOR THE DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY **DIT 1008-COMPUTER APPLICATIONS II**

Date: 11th April 2022 Time: 2.30pm-4.30pm

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS **QUESTION ONE: COMPULSORY (30 MARKS)**

a.	Define the term Artificial Intelligence	(2 Marks)	
b.	List 4 advantages of FIS	(2 Marks)	
c.	Describe major branches of Artificial Intelligence	(6 Marks)	
d.	What are some real-life applications of Artificial Intelligence?	(8 Marks)	
e.	Explain 4 types of data that are used in a GIS system	(8 Marks)	
f.	Differentiate between vector and raster data presentation in a GIS system	(4 Marks)	
QUESTION TWO (20 MARKS)			
a.	Define a GIS system	(2 Marks)	
b.	Describe 4 components of a GIS system	(8 Marks)	
c.	c. What is the difference between Artificial Intelligence, Machine learning, and Deep learning?		
G	ive examples	(10 Marks)	
QUESTION THREE (20 MARKS)			
a.	List the various applications of Financial application systems	(8 Marks)	
b.	What is the difference between strong AI and weak AI?	(2 Marks)	
c.	Define the 4 main function of a GIS systems	(8 Marks)	
d.	What are the 2 GIS data models	(2 Marks)	

QUESTION FOUR (20 MARKS)

iii. Cloud Computing

a. Describe the importance of database in GIS	(4 Marks)		
b. What are the main sources of data for GIS	(6 Marks)		
c. Draw and explain data capture process in a GIS system.	(6 Marks)		
d. A GIS software has four main functional subsystems. Name them	(4 Marks)		
QUESTION FIVE (20 MARKS)			
a. Define CAD	(2 Marks)		
b. Describe 4 advantages of using computer aided design (cad) over manual drafting?(4 Marks)			
c. Describe three application areas of CAD	(6 Marks)		
d. Explain 2 types of CAD Software	(2 Marks)		
a. Discuss the following terms as part of the emerging trends in computing.			
i. Internet of Things	(2 marks)		
ii. Big data (analytics)	(2 marks)		

(2 marks)