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KIRIRI WOMEN'S UNIVERSITY OF SCIENCE AND TECHNOLOGY UNIVERSITY EXAMINATION, 2024/2025 ACADEMIC YEAR THIRD YEAR, SECOND SEMESTER EXAMINATION FOR THE BACHELOR OF BUSINESS AND INFORMATION TECHNOLOGY KBI 2309 BUSINESS DECISION SUPPORT SYSTEM

Date: 13TH AUGUST 2024 Time: 2:30PM – 4:30PM

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INSTRUCTIONS TO CANDIDATES

AN	SWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUES	TIONS			
QU:	ESTION ONE (30 MARKS)				
a)	Explain the following as used in business information systems.				
	i. Data mining	(4 Marks)			
	ii. OLAP tools	(4 Marks)			
b)	Explain any three advantages of business Intelligent systems (6 Marks				
c)	Describe the following service models as used in cloud computing				
	i. Infrastructure-as-a-Service (IaaS)	(3 Marks)			
	ii. □Platform-as-a-Service (PaaS)	(3 Marks)			
d)	Explain three types of reports generated by the Management Reporting System(MRS)(6 Marks)				
e)	Differentiate between knowledge management and expert systems as used in business application				
		(4 Marks)			
QU.	ESTION TWO (20 MARKS)				
a)	Describe the major components of Decision Support Systems	(10 Marks)			
b)	Explain the following learning techniques as used in artificial neural networks				
	i) Supervised learning	(5 Marks)			
	ii) Unsupervised learning	(5 Marks)			
QUESTION THREE (20 MARKS)					
a)	Explain the following mathematical/statistical models as used in decision support systems				
	(i) Forecasting Model	(3 Marks)			
	(ii) Optimization Analysis Model	(3 Marks)			
	(iii) Backward Analysis Sensitivity Model	(3 Marks)			
b)	Explain any five advantages of Business Intelligence Systems	(5 Marks)			
c)	Differentiate between a data warehouse and a data mart using an appropriate illu	stration			
		(6 Marks)			
QU.	ESTION FOUR (20 MARKS)				
a)	With an aid of a diagram explain the components of a data warehouse	(12 Marks)			
b)	Explain any four advantages of cloud computing as used in modern businesses	(8 Marks)			

QUESTION FIVE (20 MARKS)

a)	Differentiate between the following		
	(i)	Structured and unstructured decisions	(4 Marks)
	(ii)	Transaction processing systems and executive information systems	(4 Marks)
b)	Explain the following data mining techniques		
	(i)	Classification	(3 Marks)
	(ii)	Clustering	(3 Marks)
	(iii)	Regression	(3 Marks)
	(iv)	Association rules	(3 Marks)