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KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY EXAMINATION, 2022/2023 ACADEMIC YEAR THIRD YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS INFORMATION TECHNOLOGY

Date:

Time: 8.30am -10.30am

(5 marks)

(5 marks)

KBI 2309 - BUSINESS DECISION SUPPORT SYSTEMS

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

b)

i)

ii)

Supervised learning

Unsupervised learning

QUE	STION ON	NE (30 MARKS)	
a)	Explain th	he following as used in business information systems.	
	i.	Data mining	(4 marks)
	ii.	OLAP tools	(4 marks)
b)	Explain a	ny 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)			System(MRS)
e)	Different	iate between knowledge management and expert systems as	(6 marks) used in business applications
			(4 marks)
<u>QUE</u>	STION TV	VO (20 MARKS)	
a)	Describe	the major components of Decision Support Systems	(9 marks)

Explain the following learning techniques as used in artificial neural networks

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 i	ing an appropriate illustration		
QUI	ESTION FOUR (20 MARKS)	marks)		
a)	With an aid of a diagram explain the components of a data warehouse.			
	(12	2 marks)		
b)	Explain any four advantages of cloud computing as used in modern businesses.			
	(8	marks)		
QUE	ESTION 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)		