## **UNIVERSITY EXAMINATIONS**

ESTER: MAY-AUGUST 2021	UNIT CODE: BSSE 4130
E: AUGUST 2021	TIME: 2 HOURS
INSTRUCTIONS: Answer question one (30 marks) and any of	ther two
QUESTION ONE	(30 Marks)
a) Describe the acronym ETL as used in Data Integration	(4MKS)
b) (i) Illustrate with an a example, the structure of a well-form (6MKS)	med XML document with data
(ii) State the two uses of the XML (2MKS)	
c) (i) Describe the HTTP Protocol as used in Integrative Technolis (ii) Outline the four phases of the HTTP	nologies and Programming (2MKS) (4MKS)
d) Describe the three layers of 3-tier web application architecture case.  (6MKS)	
e) Use html tags to create the form below for capturing the na PHP Script that will display the name and the age entered	
clicked.	
	(6MKS)
clicked.	
clicked.  Name:	
clicked.  Name:  Age:	
clicked.  Name:  Age:  Submit	(6MKS)
clicked.  Name:  Age:  Submit	(6MKS)
clicked.  Name:  Age:  Submit  QUESTION TWO  a) Explain the following terminologies as uses in integrative Properties of the content of the c	(6MKS)  (20 Marks)  rogramming and technologies
clicked.  Name:  Age:  Submit  QUESTION TWO  a) Explain the following terminologies as uses in integrative Prii. Data Integration ii. API iii. CORBA	(20 Marks) rogramming and technologies (2MKS) (2MKS) (2MKS)
clicked.  Name:  Age:  Submit  QUESTION TWO  a) Explain the following terminologies as uses in integrative Pri. Data Integration ii. API iii. CORBA iv. Test-driven Development	(20 Marks) rogramming and technologies (2MKS) (2MKS) (2MKS) (2MKS)
clicked.  Name:  Age:  Submit  QUESTION TWO  a) Explain the following terminologies as uses in integrative Prii. Data Integration ii. API iii. CORBA	(20 Marks) rogramming and technologies (2MKS) (2MKS) (2MKS) (2MKS)

(2MKS)

(2MKS)

technologies

i. XLST

ii. XML

d)	Distinguish between the data consumer and data provider as used in data integ	gration
	(2MKS)	
e)	Outline the 3Vs of big data	(3MKS)
QI	UESTION THREE	(20 Marks)
a)	Distinguish between a packet and protocol as used in network programming	(4MKS)
b)	Covert the following schema into Data Type Definition (DTD)	(4MKS)
	note SYSTEM "Note.dtd"	
	<note></note>	
	<to>Tove</to>	
	<from>Jani</from>	
	<heading>Reminder</heading>	
	 shedding>retrimders/nedding>  body>Don't forget me this weekend!	
c)	Explain three categories of data Integration methods	(6MKS)
d)	Internet Protocol is responsible for delivering packets between systems on the	internet and
-/	(Paracalle M. R. Harris M. Harris M. H. Harris M. Harris M. Harris M. Harris M. H. Harris M. H. Harris M. Harri	
	specifies their format. Draw and label the IP Packet structure	(6MKS)
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QI	specifies their format. Draw and label the IP Packet structure  JESTION FOUR	(6MKS)
QI	specifies their format. Draw and label the IP Packet structure  JESTION FOUR  Use the HTML form Below to answer the questions that follows	(6MKS)
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- i. Write the HTML code that will display the above form including attributes for the form objects that will be used to pass the data to a MySQL database (10MKS)
- ii. Write a server side script using PHP to store the details captured in the form above in the MySQL database. (10MKS)