

NAMIBIA UNIVERSITY

OF SCIENCE AND TECHNOLOGY

Faculty of Management

Department of Management

QUALIFICATION: Bachelor of Business and Information Administration	
QUALIFICATION CODE: 07BBIA	LEVEL: 6
COURSE: Business Information Systems 2B	COURSE CODE: BIS621S
DATE: November 2019	SESSION: 1
DURATION: 2 Hours	MARKS: 100

	FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	Mr G Kaisara	
MODERATOR:	Ms S du Plessis	

INSTRUCTIONS

- 1. You have to answer all questions.
- 2. Read all the questions carefully before answering.
- 3. Please number your answers clearly.
- 4. Make sure your student number appears on the answering script.

PERMISSIBLE MATERIALS

1. Blue/black pen and a ruler.

THIS QUESTION PAPER CONSISTS OF 4 PAGES

(Including this front page)

Question 1 [10 Marks]

Multiple Choice Questions – Choose the most appropriate option.

1.1 This type of information system produces summarised reports and lists, usually suitable for long term situations.

- a) Decision Support System
- b) Transaction Support System
- c) Management Information System
- d) Executive Support System

1.2 Two or more computing devices that are connected to each other to share the resources are known as;

- a) Peripheral Devices
- b) Network
- c) Databases
- d) Strategic Systems

1.3 This is system is used in self-driving cars and robots.

- a) Wisdom System
- b) Artificial Intelligence
- c) Decision Support System
- d) Expert System

1.4 This refers to the physical or logical layout of a system.

- a) Network topology
- b) Synchronous System
- c) TCP/IP
- d) Net etiquette

1.5 Devices that are connected to a computer but are not part of the core computer architecture

- a) Peripheral device
- b) Node
- c) Electronic device
- d) Information System

1.6 Which of these is the odd one out?

- a) Google
- b) Facebook
- c) Twitter
- d) Instagram

1.7	and ar	nalysis based on the ability to understand the meaning of words, rather th	
	•	words or numbers.	
	a)	Semantic Web	
	b)	Static Web	
	۲) c)	Web logic	
	d)	Data mining	
1.8	A netw	ork that covers a small city may be a	
	a)	LAN	
	b)	MAN	
	c)	WAN	
	d)	Wireless	
1.9	John, S	sam and Susan use hotspot technology to use data from Susan's phone. V	Vhat
	netwo	rk architecture has been created here?	
	a)	Client Based Networks	
	b)	Server Based Networks	
	c)	Peer to peer Networks	
	d)	None of the above.	
1.10.	prov	ides immediate updating of databases and/ or master files, thereby allow	/ing
	for imr	mediate responses to user inquiries.	
	a)	e-Commerce	
	b)	Office automation systems	
	c)	Real-time processing	
	d)	Database management	
Quest	ion 2	[40 M	arks]
2.1	Discuss	s five primary stages of Porter's Value Chain.	[10]
2.2	Differe	ntiate the two broad categories of Transaction Processing Systems, giving	g
	examp	les.	[6]
2.3	Workir	ng with sensitive information is part of an Administrative Assistant's role.	Give
	and dis	scuss two ways in which sensitive information may be protected.	[4]
2.4		orld is moving more towards Software as a Service (SaaS). Define what it	
	means	, and give two reasons/advantages of using SaaS.	[5]

	2.5	In drop-shipping, generally how many parties/entities are involved? Name then	n [4]
	2.6	Discuss the meaning of functional area information systems (FAIS), one disadvathat arise due to their use, and the solution to such a problem.	ntage [3]
	2.7	On the usual organisational pyramid, which level is FAIS found?	[1]
	2.8	List any three types of virtual communities online.	[3]
	2.9	Name and discuss any two challenges faced by Business Intelligence.	[4]
	Quest	ion 3 [40 N	larks]
	3.1	Traditionally, enterprises are said to have three levels. Identify the three levels,	and
		indicate a type of information system that is commonly found at that level.	[6]
	3.2	Indicate which forms of eCommerce is described below:	
	3.2.1	Inland Revenue pays a tax rebate to a citizen electronically.	[1]
	3.2.2	Windhoek Municipality orders computers through Amazon or Alibaba.	[1]
	3.2.3	Student buys a phone on eBay	[1]
	3.2.4	Intercape places an order for buses through the internet.	[1]
	3.2.5	The Ministry of Defence places an order with the Ministry of Tourism.	[1]
	3.3	Differentiate Web 1.0, Web 2.0, and Web 3.0.	[6]
	3.4	Using your understanding, list any 5 dangers of social computing facing STUDENTS	[10]
	3.5	Draw and label any four network topologies.	[8]
	3.6	List any five ethical challenges in Information Systems/Technology.	[5]
a .	Quest	ion 4 [10 M	larks]
	4.1	Wiki	
	4.2	Blog	
	4.3	Enterprise 2.0	
	4.4	Sneakernet	
	4.5	Synchronous collaboration	



NAMIBIA UNIVERSITY

OF SCIENCE AND TECHNOLOGY

Faculty of Management

Department of Management

QUALIFICATION: Bachelor of Business and Information Administration	
QUALIFICATION CODE: 07BBIA	LEVEL: 6
COURSE: Business Information Systems 2B	COURSE CODE: BIS621S
DATE: November 2019	SESSION: 1
DURATION: 2 Hours	MARKS: 100

FIRST OPPORTUNITY EXAMINATION MEMORANDUM	
EXAMINER(S)	Mr G Kaisara
MODERATOR:	Ms S du Plessis

INSTRUCTIONS

- 1. You have to answer all questions.
- 2. Read all the questions carefully before answering.
- 3. Please number your answers clearly.
- 4. Make sure your student number appears on the answering script.

PERMISSIBLE MATERIALS

1. Blue/black pen and a ruler.

THIS QUESTION PAPER CONSISTS OF 7 PAGES

(Including this front page)

Question 1 [10 Marks]

Multiple Choice Questions – Choose the most appropriate option.

- 1.1 This type of information system produces summarised reports and lists, usually suitable for long term situations.
 - a) Decision Support System
 - b) Transaction Support System
 - c) Management Information System
 - d) Executive Support System
- 1.2 Two or more computing devices that are connected to each other to share the resources are known as;
 - a) Peripheral Devices
 - b) Network
 - c) Databases
 - d) Strategic Systems
- 1.3 This is system is used in self-driving cars and robots.
 - a) Wisdom System
 - b) Artificial Intelligence
 - c) Decision Support System
 - d) Expert System
- 1.4 This refers to the physical or logical layout of a system.
 - a) Network topology
 - b) Synchronous System
 - c) TCP/IP
 - d) Net etiquette
- 1.5 Devices that are connected to a computer but are not part of the core computer architecture
 - a) Peripheral device
 - b) Node
 - c) Electronic device
 - d) Information System
- 1.6 Which of these is the odd one out?
 - a) Google
 - b) Facebook
 - c) Twitter
 - d) Instagram

- 1.7 It allows for technologies to generate, share and connect content through search and analysis based on the ability to understand the meaning of words, rather than on keywords or numbers.
 - a) Semantic Web
 - b) Static Web
 - c) Web logic
 - d) Data mining
- 1.8 A network that covers a small city may be a...
 - a) LAN
 - b) MAN
 - c) WAN
 - d) Wireless
- 1.9 John, Sam and Susan use hotspot technology to use data from Susan's phone. What network architecture has been created here?
 - a) Client Based Networks
 - b) Server Based Networks
 - c) Peer to peer Networks
 - d) None of the above.
- 1.10. ... provides immediate updating of databases and/ or master files, thereby allowing for immediate responses to user inquiries.
 - a) e-Commerce
 - b) Office automation systems
 - c) Real-time processing
 - d) Database management

Question 2 [40 Marks]

2.1 Discuss five primary stages of Porter's Value Chain.

[10]

- Inbound Logistics: the receiving, storing, and distributing of raw materials used in the production process.
- Operations: the stage at which the raw materials are turned into the final product.
- Outbound logistics: the distribution of the final product to consumers.
- Marketing and sales: involves advertising, promotions, sales-force organization, distribution channels, pricing, etc.
- Service: the activities needed to maintain the product's performance after it has been produced, and includes thinking likes installations.

[2 marks each]

- 2.2 Differentiate the two broad categories of Transaction Processing Systems, giving examples.[6]
 - Batch processing [1]; this is whereby data is collected and then processed periodically as a batch [1]. An example are the pay claims that are lodged by people who are paid her hour worked [1].
 - Real-time processing [1]; in this case data is processed immediately at the moment of the occurrence of the transaction [1]. An example is the bank system updating your balance as soon as you withdraw money via ATM [1].
- 2.3 Working with sensitive information is part of an Administrative Assistant's role. Give and discuss two ways in which sensitive information may be protected. [4]
 - Firstly, the more sensitive information is, the less people should have access to it.
 - Secondly, those people who are authorized to access the information should have minimal ability to share that information.
 [2 marks each]
- 2.4 The world is moving more towards Software as a Service (SaaS). Define what it means, and give two reasons/advantages of using SaaS. [5]
 - Software as a Service refers to the provision of software via the internet or cloud services [1]. An organization may use it as it allows an they can have access to real-time updates to the software [2], or so as to have access to experts who can provide the needed [2]. {Consider student contributions}
- 2.5 In drop-shipping, generally how many parties/entities are involved? Name them [4]
 - Three parties involved [1], and these are the e-commerce store [1], the manufacturer [1], and the customer [1].
- Discuss the meaning of functional area information systems (FAIS), one disadvantage that arise due to their use, and the solution to such a problem.[6]
 - This is a system that is deployed in a particular department to serves its unique needs [2]. A common disadvantage is that various systems in an organization may stand as silos, not communicating [2]. And the solution is to provide Enterprise Resource Planning Systems, which unify various FAIS [2].

[2]

2.7 On the usual organisational pyramid, which level is FAIS found?

• It stretches from the bottom, all the way to the top.

2.8 List any three types of virtual communities online. [3] Gender groups Ethnic groups Student groups, etc. [1 mark each] 2.9 Name and discuss any two challenges faced by Business Intelligence. [4] Data latency refers to the staleness of data, that is, the value of data degrades rapidly with its age. When people are relying on real-time business intelligence to tactically help them with on-the-spot decisions, the most recent data and the fastest response times are needed to achieve that [2]. Data unavailability is a death knell for businesses. If a company's operations have progressed to the point that they are dependent on real-time business intelligence, the unavailability of this intelligence due to a failed system could bring operations to a halt [2]. Question 3 [40 Marks] 3.1 Traditionally, enterprises are said to have three levels. Identify the three levels, and indicate a type of information system that is commonly found at that level. [6] • Bottom level, which is called the operational level. A TPS is commonly found at this level. • Middle level, which is called the management level. A Management Information System (MIS) is commonly found here. • Top level, which is called the executive level. Executive Information Systems are commonly found here. [1 mark for each level, 1 mark for the correct Information System] 3.2 Indicate which forms of eCommerce is described below: 3.2.1 Inland Revenue pays a tax rebate to a citizen electronically. [G2C] [1] 3.2.2 Windhoek Municipality orders computers through Amazon or Alibaba. [B2A] [1] 3.2.3 Student buys a phone on eBay [B2C] or [C2C] [1] 3.2.4 Intercape places an order for buses through the internet. [B2B] [1] 3.2.5 The Ministry of Defence places an order with the Ministry of Tourism. [A2A] [1]

Web 1.0: it is characterized by one way communication, as the pages are

[6]

Differentiate Web 1.0, Web 2.0, and Web 3.0.

static and "read-only".

3.3

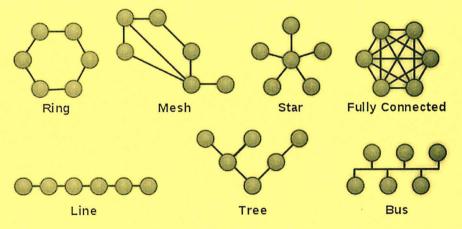
- Web 2.0: there is two way communication and collaboration. Pages are responsive to user input.
- Web 3.0: Similar to 2.0 but more advanced, with an element of artificial intelligence and semantic web.
 [2 marks]
- 3.4 Using your understanding, list any 5 dangers of social computing facing STUDENTS

[10]

- cyberbullying (bullying using digital technology): students can be bullied
- invasion of privacy: nothing online Is 100% secure. Hence privacy may always be compromised.
- identity theft: if one doesn't look off properly or easily shares information online, it could be possible to steal their identity, each, e-NUST access details.
- Seeing offensive images and messages: there are students who sometimes are exposed offensive material such as pornography.
- The presence of strangers who may be there to 'groom': students are not always tech savvy. Hence they could fall victim to human traffickers.

 [2 marks each consider alternative answers]
- 3.5 Draw and label any four network topologies.

[8]



[1 mark for each drawing, 1 mark for correct label]

3.6 List any five ethical challenges in Information Systems/Technology.

[5]

- Privacy
- Web tracking
- Disintermediation
- Copyright Infringements
- Net Neutrality [1 mark each]

Question 4 [10 Marks]

4.1 Wiki - a website that allows users to change, add to, or get rid of the information on the page

- 4.2 Blog A frequent, chronological publication of personal thoughts and Web links
- 4.3 Enterprise 2.0 An organization that has integrated Web 2.0 technologies into its systems or operations.
- 4.4 Sneakernet An era when people were the connectors, walking around to deliver files physically.
- 4.5 Synchronous collaboration when various parties are collaborating together at the same time.

[2 marks each]