

# *NAMIBIA UNIVERSITY*

OF SCIENCE AND TECHNOLOGY

# **FACULTY OF COMPUTING AND INFORMATICS**

DEPARTMENT OF INFORMATICS, JOURNALISM AND MEDIA TECHNOLOGY

QUALIFICATION: BACHELOR OF INFORMATICS	
QUALIFICATION CODE: 07BAIF	LEVEL: 7
COURSE: ENTERPRISE WEB APPLICATION DEVELOPMENT	COURSE CODE: EWD621S
DATE: NOVEMBER 2022	PAPER: THEORY
DURATION: 2 hrs: 00 min	MARKS: 50

FIR	ST OPPORTUNITY EXAMINATION QUESTION PAPER
EXAMINER(S):	
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MODERATOR:	MR TENGOVANDU KANDETU
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THIS QUESTION PAPER CONSISTS OF 8 PAGES

(Including this front page)



# **INSTRUCTIONS TO STUDENTS:**

- 1. Read all the questions, passages, scenarios, etc., carefully before answering.
- 2. Answer all the questions.
- 3. Number each answer clearly and correctly.
- 4. Write neatly and legibly.
- 5. Making use of any crib notes may lead to disqualification and disciplinary action.
- 6. Use the allocated marks as a guideline when answering questions.
- 7. Looking at other students' work is strictly prohibited.
- 8. This paper consists of SIX (8) pages including the cover page.



# **SECTION A: Multiple Choice Questions [10 Marks]**

1. Which of the following is based on a suite of integrated software modules and a common

• The section consists of 10 questions. Answer all the questions.

Select one option from the list of possible answers to the questions below.

central database?

	b. c.	Enterprise systems Network operating systems Transaction processing systems	
	c.		
		Transaction processing systems	
	u.	Management information systems	
		ivialiagement information systems	
2.	. Which of the following is considered to be the leading enterprise software vendor? (1 Mar		? (1 Mark)
	a.	Oracle	
	b.	SAP	
		BAAN	
	d.	PeopleSoft	
3.	What k	ind of HTTP request does the <a href="url">text</a> generated?	(1 Mark)
	a.	POST	
	b.	GET	
	c.	PUT	
	d.	DELETE	
4.	In ERP,	data migration refers to	(1 Mark)
	a.	Upgrading ERP software	
		Upgrading both hardware and ERP software	
	c.	Backup of data in an ERP system	
	d.	Moving, copying and re-structuring data from an existing system to an ER	RP system
Е	\\/b a+ :	the town for incremental shapers to processes in an examination using	
<u>5</u> .		s the term for incremental changes to processes in an organization using ation technology?	(1 Mark)
	miorina	ation teamology.	(± mark)
	a.	Business Process Improvement	
	b.	Business Process Reengineering	
	c.	Business Process Change	
	d.	Business Process Advance	
6	Δ	is a special computer that serves webpages	(1 Mark)
٥.		Server	(=
		Host	
		Client	
		Router	

(1 Mark)



7.	Α	computer requests web pages from the server.	(1 Mark)
	a.	Server	
	b.	Host	
	C.	Client	
	d.	Router	
8.	Α	web page is not interactive and is used to display information only.	(1 Mark)
	a.	Dynamic	
	b.	Static	
	c.	Server	
	d.	Client	
9.	The ba	ckground colour of a Web page is determined by the property.	(1 Mark)
	a.	BackColor	
	b.	BackgroundColor	
	c.	BgColor	
	d.	BColor	
10.	The ap	plication protocol that makes the Web work is	(1 Mark)
	a.	HTML	
	b.	НТТР	
	C.	SMTP	
	d.	IP	



# **SECTION B: Descriptive Questions [26 Marks]**

Answer all the questions in the provided blanks and empty spaces where necessary.

The section consists of 6 questions.

(10 Marks) 1. Define the following concepts. a. An Enterprise b. Business process c. Web Application d. Enterprise Application e. Process Management (6 Marks) 2. Define the client-server computing model.



	What is modelling and how is it relevant for Enterprise Applications Development? (4 Marks)			
	Given the scenario in <i>Figure 1</i> below, define its context and the scientist responsible for the development of the abstracted technology. (3 Marks)			
	The World Wide Web was designed originally as an interactive world of shared information through which people could communicate with each other and with machines. Since its inception in 1989 it has grown initially as a medium for the broadcast of read-only material from heavily loaded corporate servers to the mass of Internet connected consumers. Recent commercial interest, its use within the organization under the "Intranet" buzzword takes it into the domain of smaller, closed, groups, in which greater trust allows more interaction. In the future we look toward the web becoming a tool for even smaller groups, families, and personal information systems. Other interesting developments would be the increasingly interactive nature of the interface to the user, and the increasing use of machine-readable information with defined semantics allowing more advanced machine processing of global information, including machine-readable			
	signed assertions.  Figure 1: The context			
	Which data type is represented or applied in the code snapshot below? (2 Marks)  If person = {  "firstname" : "John",  "lastname" : "Nakuta",  "age" : "55",  "Occupation" : "Director"			
_	Which of the following APIs is almost entirely based on and uses the data structure in			
	question 4 above? (1 Mark)			

- question 4 above? a. JQUERYb. JSONc. AJAXd. JAVA



### **SECTION C: Practical Questions [20 Marks]**

 Considering the following HTML code, produce a design of the page it would display when executed via the browser. (10 Marks)

```
<h2>Simple Product Purchase</h2> //1 mark
<form> //1 mark
 //table elements optional
<b>Full Name:</b><input type="text"> //1 mark
<b>Email Address:</b><input type="email"> //1 mark
<b>Email Address:</b><input type="email"> //1 mark
<b>Email Address:</b><input type="url"> //1 mark
<b>Website URL:</b><input type="url"> //1 mark
<b>Comment:</b><itd><input type="checkbox"> Product 1 <b>N$100</b> //1 mark
<input type="checkbox"> Product 2 <b>N$250</b> //1 mark
<input type="checkbox"> Product 2 <b>N$250</b> //1 mark
 //table elements optional
```

Figure 2: HTML Code

Use the following empty space for your answer.



2. Produce a PHP script that will receive and process data from the HTML Form. (10 Marks)

Storing Form data in Database
First Name:
Last Name:
Gender:
Address:
Email Address:
Submit

Figure 3: HTML Form

Use the following empty page for your answer.

\*\*\*\*\*\* End of the Paper \*\*\*\*\*\*\*\*\*\*



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