



**NAMIBIA UNIVERSITY  
OF SCIENCE AND TECHNOLOGY**

**FACULTY OF COMPUTING AND INFORMATICS**  
DEPARTMENT OF INFORMATICS, JOURNALISM AND MEDIA TECHNOLOGY

<b>QUALIFICATION:</b> BACHELOR OF INFORMATICS <b>QUALIFICATION CODE:</b> 07BAIF	<b>LEVEL:</b> 7
<b>COURSE:</b> ENTERPRISE WEB APPLICATION DEVELOPMENT	<b>COURSE CODE:</b> EWD621S
<b>DATE:</b> JANUARY 2023	<b>PAPER:</b> THEORY
<b>DURATION:</b> 2 hrs : 00 min	<b>MARKS:</b> 50

<b>SECOND OPPORTUNITY/SUPPLEMENTARY EXAMINATION QUESTION PAPER</b>	
<b>EXAMINER(S):</b>	<b>MR ELIAZER MBAEVA</b>
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**THIS QUESTION PAPER CONSISTS OF 9 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 **(9)** pages including the cover page.



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

- The section consists of 2 questions. Answer all the questions in the provided blank lines and open spaces where necessary.

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

1. Which of The Following Is An Internet Protocol. (1 Mark)
  - a. FTP
  - b. TCP/IP
  - c. EFT
  - d. EDI
2. Which of the following terms best represent Web Databases: (1 Mark)
  - a. File System Api
  - b. Offline Web Applications
  - c. Online Web Applications
3. Which of the following statements represent *href*. (1 Mark)
  - a. Is A Tag Of A Tag
  - b. Is A Value Of A Tag
  - c. Is An Attribute Of A Tag
  - d. Stands For Hyperlink Repeat Electronic Filling
4. Which Tag is used to include a separately defined *Style Sheet* in Web Pages? (1 Mark)
  - a. <style>
  - b. <link>
  - c. <body>
  - d. <import>
5. In which loop does the condition comes after the body of the loop? (1 Mark)
  - a. While Loop
  - b. For Loop
  - c. Do-while Loop
  - d. Nested Loop
6. PHP stands for? (1 Mark)
  - a. Hypertext Preprocessor
  - b. Pretext Hypertext Preprocessor
  - c. Personal Home Processor
  - d. None of the above



7. Which of the following is used to display the output in PHP? (1 Mark)
- a. Echo
  - b. Write
  - c. Print
  - d. Both (a) and (c)
8. Which of the following is the use of strlen() function in PHP? (1 Mark)
- a. The strlen() function returns the type of string
  - b. The strlen() function returns the length of string
  - c. The strlen() function returns the value of string
  - d. The strlen() function returns both value and type of string
9. Which of the following is used for concatenation in PHP? (1 Mark)
- a. + (plus)
  - b. \* (Asterisk)
  - c. . (dot)
  - d. append()
10. Which of the following is the correct way to create a function in PHP? (1 Mark)
- a. Create myFunction()
  - b. New\_function myFunction()
  - c. function myFunction()
  - d. None of the above





**SECTION B: Descriptive Questions [20 Marks]**

- The section consists of 5 questions. Answer all the questions.

"We set up a telephone connection between **US** and the **GUYS** at **SRI...**,"  
"We typed the L and we asked on the phone,  
- Do you see the L?  
- Yes, we see the L, came the response.  
We typed the O, and we asked:  
- Do you see the O.  
- Yes, we see the O.  
Then we typed the G, and ... the system crashed...Yet a revolution had begun".

Figure 1: "Said someone".

1. Given the context above, explain what was happening and state scientist responsible or credited for that significant development. (3 Marks)

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2. Given the following abbreviations, provide words representing each of the letters in abbr. (5 Marks)

- a. HTTP : \_\_\_\_\_
- b. HTML : \_\_\_\_\_
- c. URLs : \_\_\_\_\_
- d. URIs : \_\_\_\_\_
- e. MVC : \_\_\_\_\_

3. What is the purpose of HTML in Web Applications development? (2 Marks)

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4. Define modelling and its significance for enterprise applications development. Give a simple example of a model to support your definitions. (3 Marks)

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5. Analyse and define the scenario depicted in the diagram below:

(5 Marks)

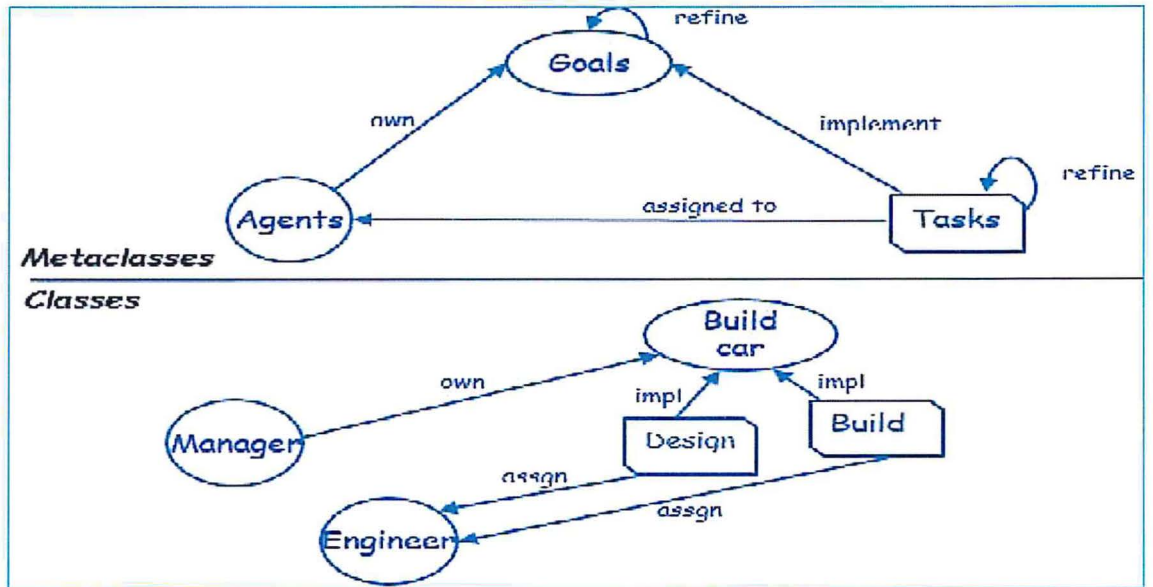


Figure 2: Modelling classes and metaclasses

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2. Identify the errors in the code snippet below.

(4 Marks)

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1 <?php
2 session_start();
3 $db_server = 'localhost';
4 $db_username = 'root';
5 $db_password = '';
6 $db_name = 'flowershop';
7
8 $conn = mysqli_connect( $db_server , $db_username , $db_password , $db_name );
9
10 if( $conn == false )
11 {
12     echo 'Error No:'. mysqli_connect_errno();
13     echo '<br/>';
14     echo 'Connection Error: ' . mysqli_connect_error();
15
16     die();
17 }
18 /*else{
19     //echo 'database connected successfully';
20 }*/
21 function getSessionId()
22 {
23     if( !isset($_SESSION['session_id']) )
24     {
25         $_SESSION['session_id'] = rand(9999,99999);
26     }
27     return $_SESSION['session_id'];
28 }
29 ?>
```

Figure 4: Error Analysis

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3. Produce an HTML code that will design an HTML Form given below.

(10 Marks)

### Simple Product Purchase

**Full Name:**

**Email Address:**

**Website URL:**

**Comment:**

**My Products:**  Product 1 NS100  Product 2 NS250

Figure 5: HTML Form

Use the following empty page for your code.





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



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