

ZIMBABWE EZEKIEL GUTI UNIVERSITY



FACULTY OF HEALTH, SCIENCE AND TECHNOLOGY

Department of Information Systems

Module: BIS222 Web Technologies

Exam Duration: 3 hours

01 DEC 2022

End of Semester Examination 2022

Instructions

- (i) Answer all questions, the mark allocation for each question is shown in square brackets.
- (ii) Number your answers accordingly.
- (iii) The total marks for the examination is 100.
- (iv) The Examination consists of Section A and Section B
- (v) Answer Section A and any **two** Questions from Section B
- (vi) Write your section A in answer booklet provided
- (vii) Write section B on your computer and save your work in one folder

SECTION A

Answer **ALL** questions from this section

Question 1

- a) Registering a domain name can be easy because you can select whatever name you want, but what you choose is crucial for your business future or your blogging website. Identify and explain briefly the rules one need to consider before purchasing a domain name.

[10 marks]

Question 2

- a) Explain the following domain name extensions

[10 marks]

- i. TLD
- ii. 2LD
- iii. gTLD
- iv. CcTLD
- v. .com
- vi. .mil

Question 3

- a. A webapp is typically a 3-tier (or multi-tier) client-server database application run over the Internet and it comprises five components. Identify and explain the components.

[10 marks]

Question 4

- a. PHP provided setcookie() function to set a cookie. This function requires up to six arguments and should be called before <html> tag. For each cookie this function has to be called separately. Identify and explain these arguments.

[10 marks]

SECTION B

Answer any **THREE** questions from this section

Question 5

Generate the DOM for the HTML code below

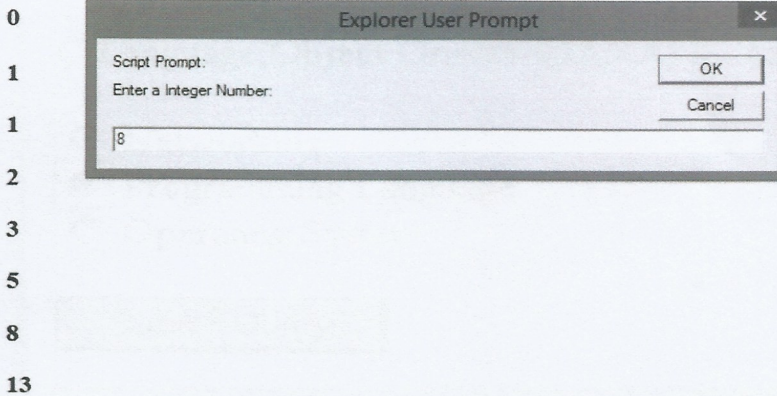
[10 marks]

```
<TABLE>
<TBODY>
<TR>
<TD>Shady Grove</TD>
<TD>Aeolian</TD>
</TR>
<TR>
<TD>Over the River, Charlie</TD>
<TD>Dorian</TD>
</TR>
</TBODY>
</TABLE>
```

b. Write a JavaScript program to generate Fibonacci series as shown below

[10 marks]

The 8 Fibonacci numbers are as shown below

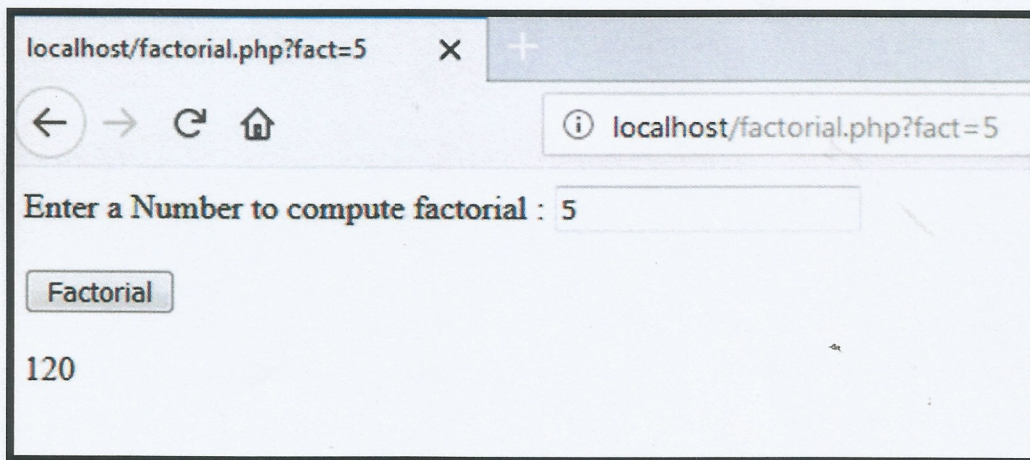


Question 6

Design an HTML form as demonstrated below and add PHP script to accept any number, pass it to a parameterized function called **factorial** to determine and display the factorial of that number on the screen using a method called **GET**.

Hint: factorial of $n = 1*2*3*...*n$.i.e. factorial of 3 is $3*2*1 = 6$

[20 marks]



Question 7

a. Demonstrate understanding of radiobuttons and forms in HTML by writing code that produces the design below using a file called **radiobutton.html**. In addition to that create a PHP file called **radiobutton.php** and add functionality such that when the user clicks the button **Submit Query** the result of selected button will be posted on the webpage. For example the form below must give the following output :

You selected the answer: Programming Language

[20 marks]

C Language, Object Oriented (JAVA) can be considered as:

- Networking
- Programming Language
- Operating System

Submit Query

Question 8

write a DHTML code for creating the web page for validating the web form using guidelines below;

- a) The form will include one text field called "Your Name", and a submit button. [05 marks]

- b) Validation script will ensure that the user enters their name before the form is sent to the server. [15 marks]