

COVENANT UNIVERS

CANAANLAND, KM 10, IDIROKO ROAD P.M.B 1023, OTA, OGUN STATE, NIGERIA.

TITLE OF EXAMINATION: B.SC DEGREE EXAMINATION

COLLEGE: SCIENCE AND TECHNOLOGY

DEPARTMENT: COMPUTER AND INFORMATION SCIENCES SESSION: 2021/2022

SEMESTER:

ALPHA

**CREDIT UNIT: 2** 

COURSE CODE: CSC310

COURSE TITLE: INTERNET PROGRAMMING,

INSTRUCTION: Answer Any Three Questions

TIME: 2 HOURS

- (a) In developing a database driven application using PHP & MySQL, there are three (1) popular ways to connect to MySQL server or any other databases, discuss these (8 marks) popular ways and recommend which is the best and why?
  - (b) Write PHP line of code to establish connection to MySQL DBMS using the following methods:
    - // PDO
    - // MySQLi, Procedural method
    - // MySQLi, Object oriented method

(7.5 Marks)

- (c) Illustrate with sample PHP program, the difference between the use of a numeric array and associative array. (8 Marks).
- What is Cascading Style Sheet (CSS) and write down the differences between (2) (a) HTML and CSS. (3 Marks)
  - List the five parts of CSS syntax and write a CSS rule with element id="wrapper" (b) to achieve the following: set text-align to center, set border to 1 pixel and solid red, width= 200 pixels and height =100 pixels. (6 Marks)
  - What is CSS Box Model? Illustrate this model using appropriate diagram. (c)

(4.5 Marks)

Discuss the benefits of using CSS to a website site designer/developer. (3 Marks) (d)

- (e) Write JavaScript program to accept three integer values from the user and output the maximum on the browser screen. (7 Marks)
- (3) (a) In a student information system portal, we have 'StudDB' as database and one of the tables is 'marks'. This table has been populated with the following turples as shown in table 2:

StudentID	FirstName	LastName	Mark
1	Fred	Jones	78 3
2	Bill	James	67 4
3	Carol	Smith	82 2
4	Bob	Dunca	60 3
5	Joan	Davis	86 1

Table 2

Write both the SQL statements and the output for the following demands by user.

- (i) Retrieve student records whose StudentID is greater than 1 and less than 5; (2.5 %) or Marks)
- (ii) Delete student records whose marks are greater or equals to 80; (2.5 Marks)
- (iii)Retrieve and display every records order by mark DESC; (2.5 Marks)
- (iv)Count the number of records in marks table; (2.5 Marks)
- (v) Edit and change all the students' mark to 60; (2.5 Marks)
- (b) Write a PHP program to compute the average age of the following 10 students {16, 21, 18, 20, 19, 22, 18, 17, 18, 16} using a numeric array and display the average age on the browser. (11 Marks)
- (4) (a) Discuss 5 reasons why PHP and MySQL are better chosen as a development platform of choice. (6.5 Marks)
  - (b) What is Content Management System (CMS)? Give 5 Examples. (5 Marks)
  - (c) A database table exists in MySQL called "company-cars" write a PHP program to retrieve all the record into a numeric array and display them on the browser using HTML table.

    (12 Marks)
- (5) (a) (i) Enumerate and discuss three architectures that can be used to categorise a typical distributed system. (3 Marks)
  - (ii) What are the issues usually associated with distributed system.

(2 Marks)

- IP addresses provide the means for device and object identification in a (iii) network, present in a tabular form, the five classes of IP addresses depicting their class names, first Octets, Net-IDs, Default subnet masks (2.5 Marks) and their availability.
  - As a web application developer, you are confronted with a task of (iv) developing an interactive website for a customer, describe the step-bystep procedures involved to put this website on the internet. (4 Marks)
- As one of the many tasks involved in a website design, write HTML codes to achieve the following tasks:

Display table 1 below in a browser: (i)

(4 Marks)

S/n	Name of Fruits	Price
1	Apple	N200.00
2	Orange	N50.00
3	Banana	N100.00
4	Pawpaw	N150.00

Table 1

Create the form as represented in figure 1below: (ii)

(8 Marks)

24 Internet and WWW Flow to Program Turns Mi				
Ele Edit View Favorites Iools Help				
Address D:\Lecture\InternetPublishing\CourseMeteri				
Feedback Form				
Please fill out this form to help us improve our site.				
Please ha out this torm to help as any				
Name:				
Comments:				
· ·				
E-mail Address				
Things you liked:				
Site design   Links   Ease of use   Images   Source				
code				
How did you get to our site?:				
Search engine © Links from another site O Deitel.com Web site O Reference in a book O Other O				
WED BILE O KETELEHER BY BOOK O CHILL				
Rate our site: Amazing				
Submit Y 10 Clear Your Entries				
Subinit 7				
7				
6 5				
4				
2				
Done Avriul I I S My Computer				

Figure 1