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**KENYA METHODIST UNIVERSITY**

**END OF FIRST TRIMESTER 2018 (FT) EXAMINATIONS**

**SCHOOL : SCIENCE AND TECHNOLOGY**

**DEPARTMENT : COMPUTER SCIENCE**

**COURSE CODE : BBIT 325/CISY 311/BSIS 427/DCIS 211**

**COURSE TITLE : INTERNET APPLICATION PROGRAMMING**

**TIME : 2 HOURS**

**INSTRUCTIONS:**

* *Answer* ***Question ONE*** *and any other* ***TWO*** *Questions.*

**Question One (30 Marks)**

1. Define the term www and state four feature of www. (5 Marks)
2. Describe how a web server works, and the steps that take place from your initial request for a World Wide Web document using a web browser until the requested document renders in your browser. (6 Marks)
3. Outline the significance of the following tools in creating responsive internet applications: (6 Marks)
   1. CSS
   2. JavaScript
   3. PHP
4. Distinguish between: (8Marks)
   1. IP Address and Domain name
   2. Static web pages and dynamic web pages
   3. Client side programming and server side programming
   4. Web browser and web server
5. Give the function of the following HTML tags: (5 Marks)
6. <Ahref="#"><IMG SRC=”img.png”></A>
7. <UL Type=”square”><LI>Item 1</LI><LI>Item 2</LI></UL>
8. <Meta name="keywords" content="HTML,CSS,XML,JavaScript">
9. <Input type="date" name="bday" min="2000-01-02">
10. <TD COLSPAN=3>My heading goes here</TD>

**Question Two**

1. Write html codes that creates form interface below. (8 Marks)

**FILL IN TO RECEIVE UPDATES**

**NAMES**

**EMAIL ADDRESS**

**COUNTRY**

**SUBMIT**

**RESET**

AFGANISTAN

**GENDER**

**MALE**

**FEMALE**

1. Write a html for the following table layout

**Required:**

1. Table border of size 2 and width of table occupies the whole computer screen. (2 Marks)
2. Two columns and three rows (2 Marks)
3. Merge the two cells in first row. (1 mark)
4. Change the background colour of first row (1 mark)
5. Insert some contents within the cells. (1 mark)

**Question Three**

1. Describe any three web security issues. (3Marks)
2. Give the correct HTML syntax for referring to an external style sheet. (3 Marks)
3. Give the syntax of the following: (9Marks)
   1. Display “Hello World” in PHP
   2. Change body background colour using css
   3. Display an alert box with the message “Hello World” in JavaScript

**Question Four**

1. A JavaScript program is required to calculate wages for employees of ABC Ltd. Using the following formulae.
   * 1. Basic salary = No of Hours \* hourly rate
     2. Lunch Allowance = 200
     3. Gross Salary = Basic Pay + Lunch Allowance
     4. Income Tax charged on gross pay is 30% of the gross
     5. Net pay = Gross pay – Tax

Hourly rate and lunch allowance are constant values. The number of hours worked should be read from the keyboard. Write a program process salary for an employee. (8 Marks)

1. Describe the tcp/ip protocol stack clearly stating protocols at each level. (7 Marks)