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CICT PART II SECTION 4

WEB DESIGN AND e-COMMERCE

FRIDAY: 30 November 2018.　　　　　　　　　　　　　　**Time Allowed: 3 hours.**

Answer ALL questions. Marks allocated to each question are shown at the end of the question.

QUESTION ONE

(a)　List five properties associated with a form as used in web design platforms.　　　(5 marks)

(b)　Study the following table:

This is my first attempt in CICT Section 4	Notice this cell contains a table: A | B C | D
This cell contains a list: • English • History • Science	H E L L O

Required:
Write a HTML code that would generate the diagram shown above.　　　(15 marks)
(Total: 20 marks)

QUESTION TWO

(a)　Using a scripting language, write functions to perform each of the following tasks:

　　(i)　Create a new date object and assign it the current time.　　　(2 marks)

　　(ii)　Test a variable and return true if a variable is a number and false otherwise.　　　(2 marks)

　　(iii)　Return the number of characters in a string.　　　(2 marks)

(b)　The management of Jaribu Traders Ltd. have contracted you to advise them on various aspects of e-commerce.

Required:
Highlight to the management of Jaribu Traders Ltd.:

　　(i)　Three features of an e-commerce site.　　　(3 marks)

　　(ii)　Three non-technical challenges of an e-commerce site.　　　(3 marks)

(c)　A recent survey by web bloggers found out that many websites have blurred images.

　　With respect to the above statement, highlight four common mistakes in placing web images on websites.　　　(4 marks)

(d)　Write cascading style sheets (CSS) to illustrate the following scenario:

　　"Change both the background-colour and the position of the <div> element when the animation is 25% complete, 50% complete and 100% complete".　　　(4 marks)
(Total: 20 marks)

QUESTION THREE

(a)   Distinguish between "relative" and "absolute" layer positioning in web design.   (4 marks)

(b)   The web form shown below is made up of a checkbox, a text field and a submit feature:

myWebForm

☐   Adult (over 18 years)

[_____]   Full Name

[SUBMIT]

Write a HTML code to implement the above web form.   (4 marks)

(c)   Distinguish between "tweening" and "morphing" as used in web design.   (4 marks)

(d)   (i)   You have decided to start an e-tailor business.

            Required:
            As a website administrator of your business, analyse three online regulations that you would observe.   (4 marks)

        (ii)   There are several basic steps an organisation would need to accomplish before becoming e-commerce enabled with a functional website.

            List down four of the above steps.   (4 marks)

(Total: 20 marks)

QUESTION FOUR

(a)   During the implementation of e-commerce, one of the most important items is an interchange agreement which establishes the rules to be adopted for using Electronic Data Interchange.

Analyse four issues likely to be addressed by the working parties in preparing this model.   (4 marks)

(b)   Using HTML tags, write statements to perform the following tasks:

        (i)   Add a yellow background colour.   (3 marks)

        (ii)   Insert a horizontal rule.   (2 marks)

        (iii)   Center align a heading.   (3 marks)

(c)   Use a scripting language to write a program embedded within HTML environment that would compute and display the squares of the first ten odd numbers.   (8 marks)

(Total: 20 marks)

QUESTION FIVE

(a)   Explain the following terms as used in web development:

        (i)   Site map.   (2 marks)

        (ii)   Site menu.   (2 marks)

(b)   Digital certificates are directly applicable in e-commerce websites.

With the aid of a diagram, analyse the sequence of digital certificates encryption.   (6 marks)

(c)   Differentiate between the following terms as used in cloud computing:

        (i)   Infrastructure as a service (IaaS) and platform as a service (PaaS).   (2 marks)

        (ii)   Community and hybrid clouds.   (2 marks)

(d)   Using a scripting tool, show how one could access a database.   (4 marks)

(e)   Distinguish a dynamic website from a static website.   (2 marks)

(Total: 20 marks)

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