2920/304 INTERNET BASED PROGRAMMING July 2019 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY MODULE III

INTERNET BASED PROGRAMMING

3 hours

INSTRUCTION TO CANDIDATES

This paper consists of EIGHT questions.

Answer any FIVE questions in the answer booklet provided.

Candidates should answer the questions in English.

This paper consists of 4 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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Turn over

1. (a) Outline four attributes of a <marquee> that may be used to set its movement in a web page. (4 marks) Distinguish between sequential navigation and hierarchical navigation schemes as (b) applied in web design. (4 marks) (c) Explain three disadvantages of common gateway interface approach in web programming. (6 marks) (d) Ali has been tasked to design a web site for an organization and would like to include text input controls on the forms. Explain three controls that he is likely to consider. (6 marks) (a) Outline four uses of server side scripting language. (4 marks) (b) Distinguish between a web page and a web server as used in the internet. (4 marks) Explain three reasons for having each of the following features in web authoring (c) software. (6 marks) Script language program; (i) (ii) Integrated multimedia elements; (iii) Supporting CD-ROM or Laser Disc sources. Write a JavaScript program embedded in HTML that prompts the user to enter a (d) number and then displays the message, "number is less than 10" or otherwise on an alert box. (6 marks) 3. (a) Outline four characteristics of HTML tags. (4 marks) Describe each of the following as used in web design. (b) (6 marks) (i) site map: (ii) links: (iii) buttons. (c) Distinguish between structured authoring tools and unstructured authoring tools as used in web design. (4 marks) Write a JavaScript program embedded in HTML to display all the even numbers (d) between 0 and 20. Use a for loop statement. (6 marks) Jane a web developer was asked to develop an effective website for a business. (a) Explain the term an effective website. (i) (2 marks) (ii) Explain three qualities of an effective website. (6 marks) (b) Distinguish between spoofing and snooping as applied in web site security. (4 marks) Write a JavaScript program embedded in HTML that prompts a user to enter two (c) numbers using a function the program then computes the product of the two numbers and displays the results using an alert function. (8 marks)

8. (a) Outline four attributes of a <textarea> as used in HTML.

(4 marks)

(b) Explain three reasons for performing security test on a web site that has been developed.

(6 marks)

(c) Write a HTML code that would display the following form when run on a browser.

(10 marks)

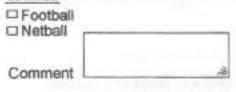
First name

Last name

COURSE

- o ICT
- o MEC

GAMES



Submit Reset

(a) Outline four attributes of a <meta> as used in HTML.

(4 marks)

(b) Explain the effect of each of the following tags in a web page:

(6 marks)

- (i) <!--...
- (ii) <sup>
- (iii)

- (c) The following is a table to be displayed on a web page.

Column A	Column B
Data 1	Data 2
Data 3	

Write a HTML code to display the table with the following attributes:

(10 marks)

- · The table to occupy 50% of the browser's window;
- . The table cells to have spacing of 4 pixels;
- To have a caption with the text "TABLE TITLE" at the top of the table;
- · First row to be table heading;
- · Second row to have a green background colour;
- . The cells in the third row to be merged and the contents aligned at the centre.

Powe Stripe HEM - CSS PEOP PLP Outline four scripting languages that could be used to develop a website. (a) (2 marks) Explain three factors to consider when selecting a web programming language. (6 marks) Explain three methods that one may use when setting colour schemes in a web page been developed. (6 marks) Explain three benefits of using an ASP in web development. (c) (6 marks) State a circumstance under which each of the following JavaScript events may be triggered in HTML. (4 marks) onAbort; (i) (ii) onBlur; (iii) onKeyDown: (iv) onReset. Explain two uses of a web form to a hotel industry. (b) (i) (4 marks) (ii) Explain three reasons for connecting web forms to a database. (6 marks) Write a HTML code that would display the following listed items when run on a

(6 marks)

INTAKES FOR MONTH OF AUGUST

- BUSINESS STUDIES
- BUSINESS INFORMATION TECHNOLOGY
- · ECONOMICS

browser.

INTAKES FOR MONTH OF SEPTEMBER

- B. MOTOR VEHICLE
- C. MECHANICAL
- D. ELECTRICAL

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