



UGANDA BUSINESS AND TECHNICAL EXAMINATIONS BOARD

PAPER CODE TDIT 115	PROGRAMME NATIONAL DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY YEAR I SEMESTER I	DATE WEDNESDAY, 4 TH DECEMBER 2019
SERIES NOV/DEC 2019	PAPER NAME INTERNET TECHNOLOGIES AND WEB DESIGN	TIME ALLOWED 3 HOURS
YOU SHOULD HAVE THE FOLLOWING FOR THIS EXAMINATION Answer Booklet Ball point pen		

INSTRUCTIONS TO CANDIDATES

1. This paper consists of **eight** questions in **two** sections **A** and **B**.
2. Answer only **five** questions including **two** questions from section **A** and **three** questions from section **B**.
3. All questions carry equal marks.
4. All answers to each question should begin on a fresh page.
5. **Do not** write anywhere on this question paper.
6. All rough work should be done in the official answer booklet provided.
7. Read other instructions on the answer booklet.

SECTION A - (40 MARKS)

Answer only **two** questions from this section.

Question One

The IT Manager of a Company that you work with tasked you to purchase an equipment that will be used to connect 20 computers to internet. The computers are housed in two different blocks about 50 metres apart and each building has different offices where the computers are placed.

- (a) Outline **three** key equipment that will be required for the connections. (03 marks)
- (b) Explain the role performed by each equipment listed in 1(a). (06 marks)
- (c) Write down **three** examples of topologies that can be used to establish the connection of all the computers to one central control point. (03 marks)
- (d) Describe **four** steps that will be followed to connect the computers above to internet. (08 marks)

Question Two

- (a) Define the term **IP Protocol**. (02 marks)
- (b) Differentiate between an **IP address** and a **domain name**. (04 marks)
- (c) Using examples and illustrations, describe **four** parts of an IP address. (08 marks)
- (d) Explain how a dial-up modem works. (06 marks)

Question Three

- (a) Define the term **electronic commerce**. (02 marks)
- (b) Explain the following models of e-commerce;
 - (i) Business to Consumer. (04 marks)
 - (ii) Business to Business. (04 marks)
 - (iii) Consumer to Consumer. (04 marks)
- (c) Describe **three** risks associated with e-commerce websites. (06 marks)

SECTION B - (60 MARKS)

Answer only **three** questions from this section.

Question Four

The following output was extracted from a website of a computer company.

- SOFTWARE

- COMPUTER CONCEPTS
- MS-WINDOW
- MS-EXCEL
- MS-WORD
- FOXPRO

- HARDWARE

1. CPU
2. Input devices
3. Output devices
4. Hard disk
5. Floppy disk

Write the html codes that produce the above lists.

(20 marks)

Question Five

- (a) Define the term **attribute** as used in web development. (02 marks)
- (b) State **two** examples of table tag attributes. (02 marks)
- (c) Using a simple HTML code syntax, illustrate the following;
- (i) Adding a link that links two different pages. (03 marks)
- (ii) Adding a link that links within the same page. (03 marks)
- (iii) Adding an image that scrolls up and down with a range on a page. (03 marks)
- (iv) Adding a web page description. (03 marks)
- (d) Explain **two** advantages of HTML code comments. (04 marks)

Question Six

- (a) Define the term **web 2.0 tools**. (02 marks)
- (b) Write down **two** examples of web 2.0 tools. (02 marks)
- (c) Explain **three** advantages of web 2.0 tools in web development. (06 marks)
- (d) Doreen was given an assignment to research about student's behavior during examination period. She didn't have print text books to use, all she had was her smart phone.
- (i) State **two** examples of tools that she can use from her phone. (02 marks)
- (ii) Describe how the tools listed in 6(a)(i) can be used for the assignment. (08 marks)

Question Seven

IMPAL TECS Ltd is planning to setup an e-commerce website.

- (a) Outline **four** security measure that they should take into consideration to ensure the security of the website. (04 marks)
- (b) Describe **two** important website functionality checks that they should carry out. (06 marks)
- (c) Explain **five** payment methods that they can implement to their website. (10 marks)

Question Eight

- (a) Define the term **Web Hosting**. (02 marks)
- (b) State **two** uses of a Cpanel tool in web hosting. (02 marks)
- (c) Explain the meaning of the following as applied to website hosting;
 - (i) Uploading web pages. (03 marks)
 - (ii) Hosting Space. (03 marks)
- (d) Explain **five** advantages of in-house hosting as compared to remote hosting. (10 marks)

END