



UGANDA BUSINESS AND TECHNICAL EXAMINATIONS BOARD

PAPER CODE TDIT 115	PROGRAMME NATIONAL DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY YEAR I SEMESTER I	DATE MONDAY, 8 TH MAY 2023
SERIES APRIL/MAY 2023	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

Kamukamu SACCO Limited intends to invest in an internet facility for its head offices and has approached you for consultations. With your knowledge of internet technologies,

- (a) Explain **three** functions of an ISP to the SACCO. (06 marks)
- (b) Discuss the role of the DNS server in the above connection. (06 marks)
- (c) Describe **four** connection types that may be applied in the above scenario. (08 marks)

Question Two

As a web developer, you find that in case you need specific information from the web, you can get it through two ways. One is directly typing the address of the destination and another is by use of search engines.

- (a) Discuss how the two perform their operations. (06 marks)
- (b) Explain **four** activities you can do with the internet. (08 marks)
- (c) Describe the process involved in the retrieval of a site over the internet. (06 marks)

Question Three

- (a) Differentiate between the following;
 - (i) IPV4 and IPV6. (04 marks)
 - (ii) Web server and DNS. (04 marks)
 - (iii) Web browser and Search Engine. (04 marks)
- (b) Explain **four** etiquettes followed while using the internet. (08 marks)

SECTION B - (60 MARKS)

Answer only three questions from this section.

Question Four

A company intends to start an online business dealing in agricultural related produce. They intend to buy and supply their customers using online mechanisms and have consulted you for advice.

- (a) Explain **three** forms of E-commerce they can engage in. (06 marks)
- (b) Discuss **four** threats their business is likely to face if they adopt to above strategy. (08 marks)
- (c) Describe **four** ways through which the company can advertise their products online. (08 marks)

Question Five

- (a) Differentiate **video conferencing** from **web conferencing**. (04 marks)
- (b) Explain **four** steps undertaken when connecting Internet using dial-up networking. (08 marks)
- (c) Describe **four** protocols involved while searching for a site over the internet. (08 marks)

Question Six

Your company has just procured a Linux webhosting server that uses a C-panel to host and manage websites on its server.

- (a) Explain **three** advantages offered by a C-panel on this server. (06 marks)
- (b) Using the domain name <https://www.designhub.com>, describe how you will log in to the C-panel dashboard. (04 marks)
- (c) Describe the steps taken to upload webpages on the server. (10 marks)

Question Seven

- (a) Define a **form control**. (02 marks)
- (b) Describe **four** form controls commonly used in website designing. (08 marks)
- (c) Explain **four** attributes a web developer has to consider while creating a form. (08 marks)
- (d) Write an HTML code that produces one of the mentioned form controls in 7(b). (02 marks)

Question Eight

Joseph is an ICT consultant and website designer. He was consulted by Brainworks Inc. a company dealing in electronics on advice concerning website design.

- (a) Explain the reason why a website is important to Brainworks Inc. (02 marks)
- (b) Write an HTML syntax to visualize the table of the electronic products sold by Brainworks Inc. shown below; (08 marks)

Item No.	Product Name	Price per Item
E001	Power supply	85,000
E009	RAM	180,000
P004	Head phones	45,000
C001	Keyboard	50,000

- (c) Re-write the code above and make the background colour of the RAM and Head phones to "blue". (06 marks)
- (d) State the difference between **HTML** and **CSS**. (04 marks)

END