845/1
INFORMATION AND
COMMUNICATION
TECHNOLOGY
Paper 1
2 ½ HOURS

YAAKA EXAMINATIONS

Uganda Certificate Of Education
INFORMATION AND COMMUNICATION
TECHNOLOGY
Paper 1
TIME: 2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES

- *This paper consists of* two *sections;* **A** *and* **B.**

- *It has* **five** *examination items. Section* A *has* one *compulsory item.*

- *Section* **B** *has* two *parts;* I *and* II. *Answer* one *item*

  from each part.

- *Answer* three *examination items in all.*

  Any additional item(s) answered will not *be scored.*

- All *answers* must *be written in the answer booklet(s) provided*

SECTION A
Answer all items in this section.

Item 1

Students of Masindi Secondary School were tasked with creating a digital newsletter to promote school activities. Due to insufficient skills in desktop publishing, their first edition was poorly formatted, and key content was missing.

Tasks:
(a). Prepare a tutorial on the basics of desktop publishing, including the tools required to create a professional newsletter.
(b). Guide the students on best practices for designing newsletters, including layout, content selection, and image integration.
(c). Provide suggestions on how to improve their teamwork and project management skills for better future editions.

SECTION B
PART I - Answer one item from this part.

Item 2

The Ministry of Education has introduced coding classes in all secondary schools to promote digital literacy. However, many schools lack the resources and skilled teachers to implement the curriculum effectively.

Tasks:
(a). Design a simple coding curriculum outline for beginners that schools can adopt, focusing on accessible programming languages.
(b). Suggest affordable or free coding resources and platforms that can support both students and teachers.
(c). Highlight common challenges faced by beginners in coding and offer tips to overcome them.

Item 3

A new policy mandates all businesses in urban areas to adopt e-commerce solutions to remain competitive. However, many small business owners lack the knowledge and resources to set up online stores.

Tasks:
(a). Develop a brief guide on the steps to create an e-commerce website using popular platforms like Shopify or WordPress.
(b). Discuss the benefits of e-commerce for small businesses and the impact on market reach and customer service.
(c). Provide strategies to secure e-commerce sites against common cybersecurity threats.

PART II - Answer one item from this part

Item 4

Linda, a student at Ndejje Secondary School, has been struggling to keep up with her online classes due to inconsistent internet access at home. She has been missing deadlines and failing to participate fully in class discussions.

Tasks:
(a). Advise Linda on alternative ways to access her class materials offline and stay on track with her coursework.
(b). Suggest digital tools that can help Linda manage her assignments and schedule effectively.
(c). Discuss the importance of digital resilience and adaptability in remote learning environments.

Item 5

The Ministry of Health is exploring the use of mobile health (mHealth) apps to improve healthcare service delivery, particularly in monitoring chronic diseases. However, there are concerns about the digital literacy of patients and data privacy.

Tasks:
(a). Propose a strategy to train patients and healthcare providers on using mHealth apps effectively.
(b). Discuss the potential benefits of mHealth apps in chronic disease management.
(c). Provide guidelines on ensuring data privacy and security in the use of mHealth solutions.

END

MARKING GUIDE TO THE ABOVE TASKS

SECTION A
Item 1:
1. **Basics of Desktop Publishing:**
   - o **Explanation:** Learning the basics of desktop publishing enables students to create professional-looking documents.
   - o **Examples:**
     - ▪ **Tools:** Microsoft Publisher, Adobe InDesign, or Canva are excellent for layout design.
     - ▪ **Techniques:** Use templates for structure, include high-resolution images, and apply consistent fonts and color schemes.
2. **Best Practices for Newsletter Design:**
   - o **Explanation:** Applying design principles improves readability and engagement.
   - o **Examples:** Use clear headings, bullet points for easy reading, and ensure images are well-positioned to complement text.
3. **Improving Teamwork and Project Management:**
   - o **Explanation:** Effective teamwork and management ensure smooth project execution.
   - o **Examples:** Use project management tools like Trello for task allocation and Google Docs for collaborative writing and editing.

SECTION B
Item 2:
1. **Simple Coding Curriculum Outline:**
   - o **Explanation:** A straightforward curriculum can help introduce coding concepts to beginners.
   - o **Examples:**
     - ▪ **Week 1-2:** Basics of Scratch programming – Creating simple animations.
     - ▪ **Week 3-4:** Introduction to Python – Writing basic scripts involving loops and conditional statements.
2. **Affordable Coding Resources:**
   - o **Explanation:** Free and low-cost resources make coding accessible to everyone.
   - o **Examples:** Websites like Codecademy and Code.org provide free interactive lessons on various programming languages.
3. **Challenges in Coding for Beginners:**
   - o **Explanation:** Recognizing common challenges helps in providing targeted support.
   - o **Examples:**
     - ▪ **Challenge:** Syntax errors and debugging.
     - ▪ **Solution:** Encourage using debugging tools and peer review sessions to find and fix mistakes.

Item 3:
1. **Guide to Setting Up an E-Commerce Website:**
   - o **Explanation:** A clear guide simplifies the process for small business owners venturing into online sales.
   - o **Examples:**

- **Step 1:** Choose a platform like Shopify or WordPress.
- **Step 2:** Design the site with product listings, payment options, and shipping details.
- **Step 3:** Launch and promote the site via social media and other marketing channels.

2. **Benefits of E-Commerce for Small Businesses:**
   - **Explanation:** E-commerce expands the reach and operational efficiency of businesses.
   - **Examples:** Reach customers nationwide, offer 24/7 service, and easily track sales through integrated analytics.
3. **Cybersecurity Strategies for E-Commerce:**
   - **Explanation:** Protecting customer data is crucial for maintaining trust and legal compliance.
   - **Examples:** Use SSL certificates, secure payment gateways, and routinely update security protocols.

PART II
Item 4:
1. **Offline Access for Coursework:**
   - **Explanation:** Finding offline solutions helps students continue learning without constant internet access.
   - **Examples:** Download lessons on a USB drive, use offline versions of educational apps like Khan Academy, or save materials directly to devices.
2. **Digital Tools for Time Management:**
   - **Explanation:** Digital tools can help students stay organized and meet deadlines.
   - **Examples:** Use Google Calendar for setting reminders, Todoist for tracking assignments, and Evernote for keeping notes organized.
3. **Importance of Digital Resilience:**
   - **Explanation:** Developing adaptability is essential for overcoming digital challenges.
   - **Examples:** Encourage proactive troubleshooting, learning to use alternative resources, and maintaining a positive approach to technology issues.

Item 5:
1. **Strategy for mHealth Apps Training:**
   - **Explanation:** Training helps both patients and healthcare providers make the most of mHealth apps.
   - **Examples:** Offer workshops demonstrating app features, provide user manuals, and use role-playing scenarios to simulate app usage.
2. **Benefits of mHealth Apps:**
   - **Explanation:** mHealth apps enhance patient care and health monitoring.
   - **Examples:** Patients can track medication schedules, monitor vital signs, and receive reminders for follow-up appointments.
3. **Guidelines for Data Privacy in mHealth:**
   - **Explanation:** Protecting personal health information is a legal and ethical priority.
   - **Examples:** Ensure data encryption, use password protection, and only allow access to authorized personnel.

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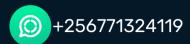
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