



**UGANDA INSTITUTE OF INFORMATION AND COMMUNICATIONS
TECHNOLOGY
END OF SEMESTER ONE EXAMINATIONS
ACADEMIC YEAR 2025/2026**

DEPARTMENT: ICT
YEAR OF STUDY: ONE
PROGRAMME(S): DIPLOMA IN ELECTRICAL & ELECTRONIC ENGINEERING (DEEE)
DIPLOMA IN ELECTRONIC COMMUNICATION ENGINEERING (DECE)
DIPLOMA IN SOFTWARE ENGINEERING (DSWE)
YEAR OF STUDY: ONE
COURSE: FUNDAMENTALS OF ICT PAPER 2
COURSE CODE : ICT111 / ICT114
DATE: SUNDAY 14TH, DECEMBER 2025
TIME: 08:00 AM -11:00 AM / 11:30 AM-2:30 PM / 3:00 PM-5:00 PM
DURATION: 3 HOURS

INSTRUCTIONS:

- (a) This paper consists of two sections A and B
- (b) Section A carries 70 marks and it is compulsory
- (c) Attempt **ONLY ONE** question from section B
Each number in section B carries 30 marks
- (d) Create a folder on the desktop and name it using format Surname-RegNo-Session
Leave out slashes in the RegNo. For example, TUSIIME-2025-DEEE-123
- (e) Save all your work for the **THREE** Questions in the folder created in (d) above
- (f) **DO NOT** write on this question paper

SECTION A [70 MARKS]

Attempt ALL the Questions in this section.

Question 1

Microsoft Word

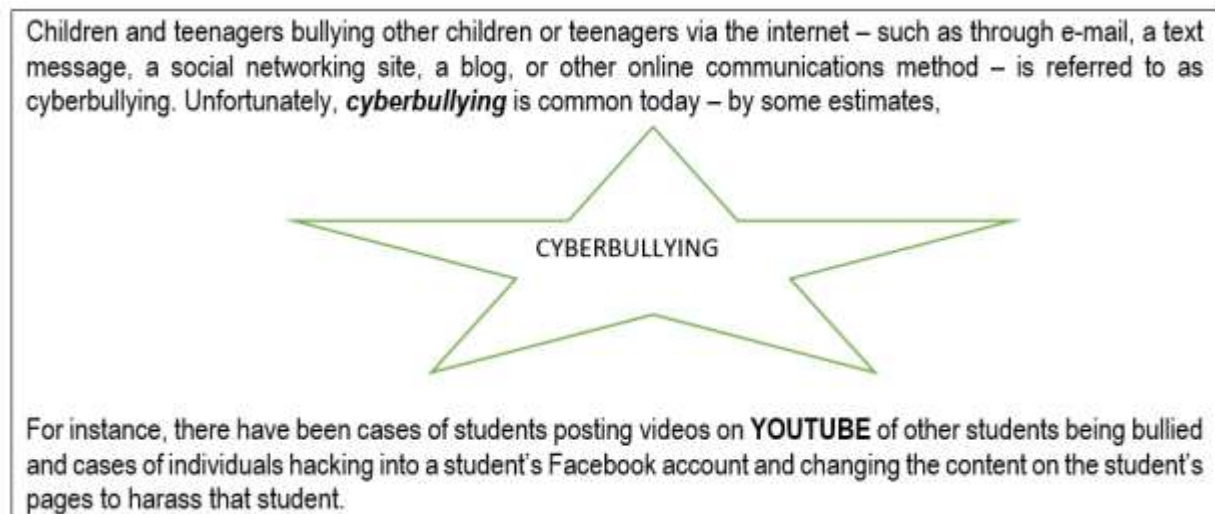
- (a) Launch Microsoft Word and accurately recreate the passage provided, applying the following formatting requirements to demonstrate proficiency in document preparation and text styling:

Use Font Style: Lucida Handwriting

Use Font Size: 13

Type the passage exactly as it appears, including the heading, paragraph structure, and embedded CYBERBULLYING graphic placement. **(8 marks)**

Social Media Use



- (b) Demonstrate document duplication skills by copying the entire typed text and pasting it onto the next page of the same document. **(2 marks)**
- (c) Enhance the visibility of the document heading by converting it to UPPERCASE, applying Bold, and adding a Double Underline. **(2 marks)**
- (d) Apply a Drop Cap to the first letter of the first paragraph to improve visual emphasis and document design. **(3 marks)**
- (e) Improve readability by adjusting the line spacing of the document to 1.5 throughout. **(2 marks)**
- (f) Optimize the document for professional printing by changing the page size to A4. **(2 marks)**
- (g) Modify the document layout by setting the page orientation to Landscape. **(2 marks)**
- (h) Insert a custom watermark using your full name to personalize and secure the document. **(2 marks)**
- (i) Apply an artistic page border of your choice to enhance document presentation and demonstrate formatting creativity. **(2 marks)**

- (j) Configure the footer section by inserting: Your registration number, and an automatic page number to show mastery of header and footer customization. **(4 marks)**
- (k) Insert a WordArt element featuring your surname at the end of the document to demonstrate advanced text effects. **(3 marks)**
- (l) Save your document using **your surname** as the file name in a folder you created on the desktop. **(3 marks)**

Question 2

Microsoft Excel

The director of studies of **GZUU Primary School** has hired you to compute and determine the missing information as required.

No	Names	Course One	Course Two	Course Three	Course Four
1	MONO	34	77	67	80
2	BAILEY	66	67	88	73
3	FAME	58	56	76	55
4	WISE	74	80	36	67
5	YEAN	84	–	77	64
6	HID	76	85	67	77
7	ZIMA	83	65	56	70

Additional Information

The Grade is computed using the Average scores as shown below:

Table 2: Grading System

SCORE	GRADE
80 – 100	A
70 – 79	B
60 – 69	C
50 – 59	D
Below 50	Fail

- (a) Using Microsoft Excel as a data-management tool, design and accurately capture the learners' performance dataset provided in **Table 1**.
Ensure correct data entry, proper alignment, and readiness for analysis. **(6 marks)**
- (b) Enhance the professionalism of the worksheet by inserting a clear and descriptive title labeled **Name of the School**.
Apply Merge and Center to create a visually coherent header that improves report readability and presentation. **(4 marks)**
- (c) Apply relevant Microsoft Excel functions to perform a comprehensive performance analysis for each learner. Specifically compute:
- (i) Total Score
Use Excel's summation functions to determine each learner's overall performance across all four courses. **(2 marks)**
 - (ii) Average Score
Calculate the mean score to support data-driven grading decisions. **(2 marks)**
 - (iii) Minimum Score
Identify the weakest subject per learner to support targeted academic intervention. **(2 marks)**
 - (iv) Maximum Score
Identify the strongest subject per learner to highlight areas of excellence. **(2 marks)**
- (d) Develop a new column titled **Grade**.
Using Excel's **IF** and/or **nested IF statements**, implement an automated grading system based on each learner's average score, aligned with the provided grading scale. Ensure the formula is flexible and scalable for future datasets. **(4 marks)**
- (e) Organize the learners' performance data by sorting the records according to the Grade in Ascending Order to enhance clarity, support comparative analysis, and facilitate informed academic decision-making. **(2 marks)**
- (f) Improve the professionalism and readability of the dataset by applying visible cell borders to all sections of the worksheet, ensuring a clear, structured, and presentation-ready layout suitable for reporting. **(2 marks)**
- (g) Using Excel's data visualization tools, generate a Pie Chart that illustrates the distribution of learners based on their Average Scores against their Names. Assign a clear and meaningful title that enhances interpretation and supports strategic performance analysis. **(5 marks)**
- (h) Save your finalized worksheet using a standardized naming convention that includes your Name and Registration Number, and store it in the designated folder on the desktop to ensure traceability and proper file management. **(2 marks)**
- (i) Save your workbook using **your surname** as the file name in a folder you created on the desktop. **(2 marks)**

SECTION B [30 MARKS]

Attempt ONLY ONE Question in this section.

Question 3

Microsoft PowerPoint

You are required to prepare a presentation about **ICT in the developing world**.

(a) Make a four-slide presentation using the sub-topics shown below.

Slide 1 – ICT in the Developing World

Slide 2 – Sectors Benefitting from ICT Development

- Education
- Health
- Economy

Slide 3 – Role Played by Government to Enhance ICT Development

- Government scholarships for learning students
- Tax reliefs to sectors handling the ICT industry
- Community sensitization about ICT role in the community

Slide 4 – Benefits of Enhanced ICT Projects/Programs

- Employment
- Time saving e.g. online service providers
- Global exposure

(8 marks)

(b) Using the appropriate function, format slides 2–4 as follows:

(i) Underline subheadings of each slide.

(2 marks)

(ii) Bullet points of each slide.

(2 marks)

(iii) Centre-align points in slide 3.

(2 marks)

(c) Format all your slides to appear more artistic.

(4 marks)

(d) Insert slide numbers.

(2 marks)

(e) Loop all the slides

(2 marks)

(f) Apply Animation type Spin to all slide headings

(2 marks)

(g) Insert footer showing your name and registration number

(4 marks)

(h) Save your presentation work using **your surname** as the file name in a folder you created on the desktop.

(2 marks)

Question 4

Microsoft Access

Kisu School is expanding rapidly, and the management team has identified increasing difficulties in tracking and managing student records using their current manual system. With student enrollment growing each year and multiple courses being offered, the manual process has resulted in frequent errors, delays in retrieving information, loss of records, and inconsistencies in tuition payment tracking.

To streamline operations, Kisu School plans to transition from a manual record-keeping system to a computerized database management system. As the ICT Assistant assigned to the project, you have been provided with the institution's existing manual data for students and courses, as shown below, and tasked to develop a well-structured database.

Student Table

STUDENT_ID	NAME	AGE	TUITION_PAID	COURSE_ID
ST001	KIZITO	21	400,000	C003
ST002	MUTONOM	32	500,000	C002
ST003	KAKOD	25	450,000	C003
ST004	JOAN	42	200,000	C001
ST005	MAASO	61	500,000	C002
ST006	KATOTO	90	180,000	C001

Course Table

COURSE_ID	COURSE_NAME	TUITION
C001	NCIT	700,000
C002	NDICT	900,000
C003	NDBA	800,000

- (a) Using MS Access, design and create a new database for the school named “Kisu” to support digital management of student and course records. **(2 marks)**
- (b) Within the database, create two tables named **Student** and **Course**, using the manual data provided.
Ensure that:
- All fields are assigned appropriate and realistic data types.
 - The structure reflects best practices in database design. **(4 marks)**
- (c) Create two Forms named **Student_Form** and **Course_Form** and use them to populate the data in the two tables. **(6 marks)**
- (d) Create a **Relationship** between the two tables. **(3 marks)**
- (e) Create a **Query** that:
- (i) Generates **STUDENT_ID**, **NAME**, **COURSE_NAME**, and **TUITION_PAID** from the table **Student**. Name it as **Payment**. **(4 marks)**
 - (ii) Generates students offering **NCIT**. **(3 marks)**
- (f) Sorts all students in **descending order** of their names. **(3 marks)**
- (g) Generate a **Report** that displays the data in the Query **Payment**. **(3 marks)**
- (h) Save your database work using **your surname** as the file name in a folder you created on the desktop. **(2 marks)**

END