

CHRISTIAN SOCIAL SERVICES
COMMISSION (CSSC)
NORTHERN ZONE JOINT EXAMINATIONS
SYNDICATE (NZ-JES)



FORM TWO PRE-NATIONAL ASSESSMENT AUG 2025

COMPUTER APPLICATION

MARKING SCHEME

Section A (15marks)

1: Multiple Choice Answers

Question No.	i	ii	iii	iv	v	vi	vii	viii	ix	x
Answer	C	A	D	A	B	D	C	C	C	D

2: Matching Items Answers

Item A	i	ii	iii	iv	v
Item B	C	A	B	D	D

Section B: 70 Marks

Question 3 (10 Marks)

i. Functions for totals, maximums, and averages:

- Total for Region 1 (cell B9): =SUM(B4:B8)
- Maximum for Region 1 (cell B10): =MAX(B4:B8)
- Average for Region 1 (cell B11): =AVERAGE(B4:B8)

(Repeat for Regions 2–4 in columns C, D, E)

- Explanation: SUM adds values, MAX finds the highest value, AVERAGE calculates the mean.

- Marks: 4 (1 per function type)

ii. Function for sales ≥ 2000 : =COUNTIF(B4:E8,">=2000")

- Explanation: COUNTIF counts cells meeting a condition (≥ 2000) in the range B4:E8 (all sales data).

- Marks: 3

iii. Copied function in F8: =SUM(B7:E7)

- Explanation: When copying =SUM(B4:E4) from F4 to F8, relative references adjust. F8 sums Ushindi's sales (row 7: B7 to E7).

- Marks: 3

Question 4 (7 Marks)

(a) Advantages of desktops over laptops (2 Marks):

1. Higher performance: Desktops support powerful processors, better cooling, and dedicated GPUs for intensive tasks.

2. Easier/cheaper upgrades: Components (RAM, storage) can be swapped independently. (1 Mark each)

(b) Parts to set up a desktop (5 Marks):

1. Monitor (display output)

2. System unit/CPU (processes data)

3. Keyboard (text input)

4. Mouse (navigation)

5. Power supply/UPS (stable electricity)

(1 Mark each)

Question 5 (10 Marks)

(i) Steps to insert page numbers (5 Marks):

1. Open the Insert tab.

2. Click Page Number in the "Header & Footer" group.

3. Select position (e.g., "Bottom of Page").

4. Choose a style (e.g., "Plain Number 2").

5. Click Close Header & Footer.

(1 Mark per step)

(ii) Steps to insert a 3×5 table (5 Marks):

1. Place the cursor where the table should appear.
2. Open the Insert tab → Click Table.
3. Select Insert Table... from the dropdown.
4. Enter 5 columns and 3 rows.
5. Click OK.

(1 Mark per step)

Question 6 (9 Marks)

(a) Formula for total in E2: =SUM(B2:D2)

- Explanation: Adds values in B2 (English), C2 (Math), and D2 (Science) for Juma.

- Marks: 2

(b) Formula for average in F2: =AVERAGE(B2:D2)

- Explanation: Calculates the mean of B2, C2, and D2. =E2/3 is also acceptable.

- Marks: 2

(c) Functions for highest/lowest in English:

- Highest: =MAX(B2:B4)

- Lowest: =MIN(B2:B4)

- Explanation: MAX/MIN identify the top/bottom value in the range (cells B2–B4).

- Marks: 2 (1 each)

(d) Advantages of spreadsheets (3 Marks):

1. Automatic calculations: Instant updates of totals/averages when data changes.
2. Visualization: Charts/graphs reveal performance trends.
3. Data organization: Sorting/filtering ranks students or identifies weak areas.

(1 Mark each)

Question 7 (7 Marks)

(a) Why GUI over CLI? (3 Marks):

- User-friendliness:(easy to use) GUIs use icons, menus, and windows for intuitive interaction. CLIs require memorizing commands (e.g., cd, dir), making them less accessible.

(b) Factors when purchasing computers (4 Marks):

1. Purpose: Match specs to use-case (e.g., gaming needs high GPU; office work needs basic CPU).
2. Budget: Balance cost with required features.
3. Upgradability: Desktops allow future hardware improvements.
4. Portability vs. power: Laptops for mobility; desktops for performance.

(1 Mark each)

Question 8 (7 Marks)

(a) Modern communication media (4 Marks):

1. Social media (e.g., Twitter/Facebook for public awareness).
2. Email (to government officials).
3. Online petitions (e.g., Change.org).

4. Radio/TV interviews (broadcast reach).

(1 Mark each)

(c) Reasons for modern media (3 Marks):

1. Speed: Instant dissemination to authorities/public.
2. Reach: Global audience engagement.
3. Cost-effectiveness: Lower expense than print/media ads.

(1 Mark each)

Question 9 (10 Marks)

(a) Software and purposes (4 Marks):

- Presentation software (e.g., PowerPoint): Create slides with animations/charts to visualize concepts.

- Audio software (e.g., Audacity): Record/edit narrations for clarity.

(2 Marks each)

(b) Features to enhance delivery (3 Marks):

1. Animations/transitions: Emphasize key points dynamically.
2. Embedded multimedia: Charts/videos simplify complex data.

(1.5 Marks each)

(c) Reasons for password protection (3 Marks):

1. Security: Prevents unauthorized access to sensitive project data.

2. Integrity: Ensures content isn't altered before submission.

(1.5 Marks each)

SECTION C: 15 MARKS

Question 10 (15 Marks)

Uses of the Internet:

- Home (3 Marks):

- Convenience: Online shopping (food, clothes), bill payments.
- Entertainment: Streaming (Netflix, YouTube), social media.
- Smart living: IoT devices (thermostats, lights).

- Education (3 Marks):

- E-learning: Platforms like Moodle/Zoom for remote classes.
- Research: Access to journals (Google Scholar), libraries.
- Collaboration: Tools like Google Docs for group projects.

- Commerce (3 Marks):

- E-commerce: Online stores (Amazon, Jumia).
- Marketing: Social media ads, targeted promotions.
- Transactions: Secure payments (PayPal, mobile money).

- Banks (3 Marks):

- Online banking: Balance checks, transfers (e.g., M-Pesa).
- Fintech apps: Budget tracking, investment platforms.
- Security: Real-time fraud alerts.

- Hospitals (3 Marks):

- Telemedicine: Remote consultations (e.g., via apps).
- Digital records: EHR systems for patient history.
- Efficiency: Online appointments, automated reminders.

(Award 3 marks per sector for 2–3 relevant points.)

Mark Distribution Summary

Section	A		B							C
Question	1	2	3	4	5	6	7	8	9	10
Marks	10	5	10	7	10	9	7	7	10	15