



Minuwangoda Education Zone

Second Term Test – 2025

Grade 10

Information and Communication Technology

Name / Admission No:

Time: 3 Hours

Instructions:

Answer all questions.

For questions 01 to 40, choose the most appropriate or correct answer from the options 01, 02, 03, and 04.

1. Consider the following statements regarding data and information:

- A. Something used for processing is considered data.
- B. The value of information decreases over time.
- C. Processed data is important for decision-making.
- D. Efficiency is not a characteristic of quality information.

Select the correct option:

- | | |
|----------------------|--------------------|
| 01. A, B, and C only | 03. B and C only |
| 02. B, C, and D only | 04. A, B, C, and D |

2. Choose the most accurate definition of an information system:

- 01. Information input, data output, and processing
- 02. Data collection, processing, and transforming into information
- 03. Data input, processing, and information output
- 04. Data input, information output, and classification

3. Which of the following is **not** an example of a G2C (Government to Citizen) e-Government service?

- 01. Paying electricity bills online
- 02. Downloading a map of Sri Lanka
- 03. Accessing the Constitution via a website
- 04. Downloading circulars and gazettes

4. Choose the option that is **not** a feature of a learning management system (LMS):

- 01. Connecting with learning units at school
- 02. Sending information to parents via e-mail
- 03. Engaging in co-curricular activities via video
- 04. Instantly uploading completed assignments from home

5. Consider the features of distance education:

- A. Ability to study from a convenient place within a flexible timeframe
- B. Access to a digital library upon course registration
- C. Online assignments and quizzes
- D. Ability to interact with an online teacher

Select the option that includes only correct statements:

01. A and B only
 02. A, C, and D only
 03. B and D only
 04. All of the above
6. Which device is used to record brain activity in medical diagnostics?
01. ECG
 02. EEG
 03. CAT
 04. MRI
7. Choose the first mechanical computing device in the world.
01. Abacus
 02. Analytical Engine
 03. Difference Engine
 04. Automatic Sequential Controlled Calculator
8. Which of the following is **not** an output device?
01. Operating system
 02. Light pen
 03. Touch-sensitive screen
 04. Barcode reader
9. A network made of bus and star topologies is called:
01. Mesh topology
 02. Tree topology
 03. Hybrid topology
 04. Ring topology
10. Which is **not** a harmful condition of information technology?
01. Addiction
 02. Accessing inappropriate websites
 03. Social networking friendships
 04. Misuse of photos and personal information
11. Which is **not** equivalent to 32 GB?
01. 2^5 GB
 02. 2^{15} MB
 03. 2^{35} Bytes
 04. 2^{45} Bits
12. Choose a disadvantage of e-commerce:
01. Ability to select and order items from one location
 02. 24-hour service availability
 03. Mismatch between ordered and received items
 04. Use of electronic payment methods
13. What kind of scanner is used to verify the accuracy of a cheque?
01. Flatbed scanner
 02. Magnetic ink character recognition (MICR)
 03. Optical character recognition (OCR)
 04. Optical mark recognition (OMR)
14. Which device can be used for both input and output operations?
01. Mouse
 02. Touch screen
 03. Touchpad
 04. Scanner
15. Choose the correct classification of computers based on technology:
01. Desktop, laptop, palmtop
 02. Super, mini, mainframe
 03. Server, client
 04. Digital, analog, hybrid

16. Which device is used to connect computer networks for data conversion?

- 01. Router
- 02. Hub
- 03. Modem
- 04. Firewall

17. Choose the option that includes **only** magnetic storage media devices:

- 01. Hard disk, stylus pen, flash memory
- 02. Floppy disk, hard disk, compact disk
- 03. Compact disk, digital versatile disk
- 04. Hard disk, magnetic tape, floppy disk

18. Which is **not** equivalent to the binary number 10001010_2 ?

- 01. 810_8
- 02. 212_8
- 03. $8A_{16}$
- 04. 138_{10}

19. What is the octal equivalent of hexadecimal 37_{16} ?

- 01. 67_8
- 02. 37_8
- 03. 31_8
- 04. 55_8

20. Choose the equivalent of decimal 75:

- A. 1001011_2
 - B. 113_8
 - C. $4B_{16}$
 - D. $4A_{16}$
- 01. A, B only.
 - 02. A, B & D only.
 - 03. A, B & C only.
 - 04. A, B, C, D all

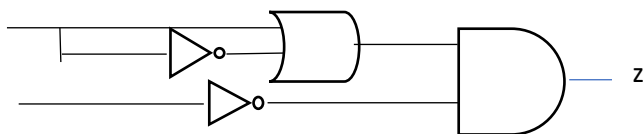
21. Choose the correct ascending order of memory devices based on data access speed:

- 01. Register memory, cache memory, random access memory, flash memory
- 02. Flash memory, random access memory, cache memory, register memory
- 03. Register memory, flash memory, cache memory, random access memory
- 04. Register memory, random access memory, cache memory, flash memory

22. Choose the option that is **not** a basic logic gate:

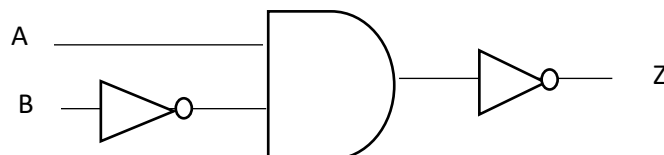
- 01. OR gate
- 02. NOR gate
- 03. NOT gate
- 04. AND gate

23. What is the output (Z) of the following logic circuit for inputs A and B?



- 01. $A + B'.B'$
- 02. $A + A'.B'$
- 03. $A.A' + B'$
- 04. $A.B' + B'$

24. Based on the truth table for the given logic circuit, choose the correct values for P, Q, R, and S.



A	B	Z
0	0	P
0	1	Q
1	0	R
1	1	S

- 01. P=1, Q=0, R=1, S=1
- 02. P=1, Q=1, R=0, S=1
- 03. P=1, Q=0, R=1, S=0
- 04. P=0, Q=0, R=1, S=1

25. Which shortcut key combination is used to replace a word at multiple locations in a document?

- 01. Ctrl + F
- 02. Ctrl + H
- 03. Ctrl + A
- 04. Ctrl + R

26. Which of the following is a free and open-source word processing software?

- 01. Microsoft Office Word
- 02. iWork Pages
- 03. OpenOffice Calc
- 04. LibreOffice Writer

27. What key is used to begin a multi-level list?

- 01. Shift
- 02. Enter
- 03. Tab
- 04. Backspace

28. What feature is used to find a synonym to replace a word in a document?

- 01. Find and Replace
- 02. Grammar and Spell Check
- 03. Thesaurus
- 04. Mail Merge

29. During which computer generation was the keyboard introduced for data input?

- 01. First generation
- 02. Second generation
- 03. Third generation
- 04. Fourth generation

30. What type of memory is referred to as Central Processing Unit (CPU) memory?

- 01. Register memory
- 02. Cache memory
- 03. Random Access Memory
- 04. Read-Only Memory

31. What is the unit used to measure the clock speed of a computer?

- 01. GB
- 02. GHz
- 03. Mbps
- 04. None of the above

32. What is the result of the formula $=(3+2)^2/5+3$ in a spreadsheet cell?

- 01. 5
- 02. 8
- 03. 3.1
- 04. 10

33. In the cell range (B2:D4), how many cells are included?

- 01. 2
- 02. 8
- 03. 6
- 04. 9

34. Choose the most accurate statement regarding spreadsheets:

- 01. Even if a formula is seen in the formula bar, the function is not visible
- 02. Column headers are numbers, row headers are letters
- 03. The address of the active cell is visible in the name box
- 04. Only formulas and functions can be copied using the fill handle

- Answer based on the given spreadsheet section:

	A	B
1	2	5
2	4	2
3	6	
4		

35. A3 cell contains the formula $=\$A1+A2$. What value appears in B3 if this formula is copied to B3?

- | | |
|-------|--------|
| 01. 7 | 03. 6 |
| 02. 4 | 04. 13 |

36. What is the correct function to find the value in A3 cell using A1 and A2?

- | | |
|--------------------|------------------|
| 01. = Count(A1:A2) | 03. = Sum(A1+A2) |
| 02. = Total(A1:A2) | 04. = Sum(A1:A2) |

37. What are the most significant digit (MSD) and least significant digit (LSD) of the number 0.035?

- | | |
|----------|----------|
| 01. 5, 3 | 03. 0, 5 |
| 02. 3, 5 | 04. 3, 0 |

38. Which of the following ports **cannot** be used to connect a computer monitor?

- | | |
|--------|---------|
| 01.USB | 03.VGA |
| 02.DVI | 04.HDMI |

39. Which encoding method is most commonly used for creating websites and online newspapers?

- | | |
|-----------|-------------|
| 01. BCD | 03. EBCDIC |
| 02. ASCII | 04. Unicode |

40. Which is a disadvantage of cloud computing?

01. Applications can be used without installation
02. More space on the computer's hard disk
03. Ability to store documents via the internet
04. Requires internet access to use cloud services