

இலங்கைப் பரீட்சைத் திணைக்களம் இலங்கைப் பரீட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரீட்சைத் திணைக்களம் இலங்கைப் பரீட்சைத் திணைக்களம்
 Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka
 இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரīட்சைத் திணைக்களம்
 Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka

GIT E I, II

සාමාන්‍ය තොරතුරු තාක්ෂණ විභාගය, 2025
 பொதுத் தகவல் தொழில்நுட்பப் பரீட்சை, 2025
 General Information Technology Examination, 2025

සාමාන්‍ය තොරතුරු තාක්ෂණය I, II
 பொதுத் தகவல் தொழில்நுட்பவியல் I, II
 General Information Technology I, II

පැය තුනයි
 மூன்று மணித்தியாலம்
 Three hours

අමතර කියවීමේ කාලය මිනිත්තු 10 යි
 மேலதிக வாசிப்பு நேரம் - 10 நிமிடங்கள்
 Additional Reading Time - 10 minutes

Use additional reading time to go through the question paper, select the questions and decide on the questions that you give priority in answering.

General Information Technology I

Instructions:

- * Answer *all* the questions.
- * Write your **Index Number** in the space provided in the answer¹ sheet.
- * Instructions are given on the back of the answer sheet. Follow them carefully.
- * In each of the questions 1 to 40, pick one of the alternatives from (1), (2), (3), (4) which is **correct** or **most appropriate** and **mark your response on the answer sheet with a cross (X) in accordance with the instructions given at the back of the answer sheet.**

1. Which one of the following is an example of an input device?
 (1) Printer (2) Monitor (3) Keyboard (4) Speaker
2. Which of the following devices serves both as an input and output device of a computer?
 (1) Touch Screen (2) Touch pad
 (3) Barcode Reader (4) Scanner
3. The speed of a processor is typically expressed in
 (1) RPM. (2) Mbps. (3) Seconds. (4) Hz.
4. Which of the following devices uses laser(optical) technology to read data?
 (1) Printer (2) CD drive (3) Scanner (4) Flash drive
5. A UPS is used for
 (1) cooling the CPU. (2) providing backup data storage.
 (3) providing backup power supply. (4) increasing Internet speed.
6. The physical parts of a computer system are known as
 (1) Software. (2) Data. (3) Hardware. (4) Programs.
7. Which of the following is an example of data when compared with information?
 (1) 98, 75, 87 (2) Class average is 86
 (3) Sales discount of 20% (4) Last month Rainfall
8. Which of the following process converts data into information?
 (1) Input (2) Processing
 (3) Output (4) Storage
9. Which of the following is **not** a main purpose of an operating system?
 (1) compile programs (2) manage software
 (3) manage files (4) provide user interfaces

10. The control unit of the CPU is responsible for
 - (1) following instructions and performing coordination.
 - (2) performing arithmetic operations.
 - (3) performing logic operations.
 - (4) managing clock speed.
11. The performance of a processor mainly depends on
 - (1) Monitor resolution.
 - (2) Clock speed.
 - (3) ROM type and size.
 - (4) Keyboard type.
12. Which of the following is an example for a proprietary operating system?
 - (1) Linux
 - (2) Ubuntu
 - (3) Windows
 - (4) Android
13. In the context of operating systems, GUI stands for
 - (1) Graphical User Instructions.
 - (2) General User Inputs.
 - (3) General User Interface.
 - (4) Graphical User Interface.
14. Which of the following is a primary storage?
 - (1) Hard disk
 - (2) RAM
 - (3) DVD
 - (4) Magnetic Tape
15. Which of the following is the hexadecimal representation of binary 1010?
 - (1) A
 - (2) B
 - (3) 10
 - (4) 12
16. Which of the following is a binary number?
 - (1) 1000
 - (2) H002
 - (3) B000
 - (4) 8101
17. The maximum unsigned integer that can be represented with seven bits is
 - (1) 7.
 - (2) 127.
 - (3) 128.
 - (4) 255.
18. The base of a number system represents
 - (1) the smallest number of the system.
 - (2) the largest number of the system.
 - (3) most significant value of the system.
 - (4) number of different symbols in the system.
19. What is the binary equivalent of decimal number 25?
 - (1) 11001
 - (2) 11000
 - (3) 10101
 - (4) 10011
20. What is the primary function of a modem?
 - (1) Convert digital signals to analog and vice versa
 - (2) Increase computer processing speed
 - (3) Manage computer memory
 - (4) Display graphics
21. Which of the following is the smallest unit of a digital image?
 - (1) Byte
 - (2) Pixel
 - (3) Bit
 - (4) Inches
22. The number of pixels contained in an image is referred as
 - (1) Brightness.
 - (2) Resolution.
 - (3) Contrast.
 - (4) Colour.

23. What is the option correctly indicates the functions of a hub and a switch?
- (1) A hub forwards data only to the specific device that needs it, while a switch sends data to all devices.
 - (2) A hub and a switch both forward data only to the intended recipient, but a switch is faster.
 - (3) A hub sends data to all devices on the network, while a switch forwards it only to the intended device.
 - (4) Both hubs and switches always broadcast data to every device on the network.
24. Which of the following is a potential disadvantage of cloud storage services such as Google drive?
- (1) You cannot access your files from different devices
 - (2) Data retrieval speed may depend on your internet connection
 - (3) Your files are not backed up by the service provider
 - (4) Collaboration with others becomes difficult
25. Which of the following cell address is a valid spreadsheet cell address?
- (1) 1A
 - (2) AB
 - (3) A20
 - (4) A10B
26. Which of the following spreadsheet functions can be used to find the smallest value in a range of cells?
- (1) MAX()
 - (2) SUM()
 - (3) MIN()
 - (4) AVERAGE()
27. What is the value displayed in a spreadsheet cell when the formula $=8/2+4/2*3$ is entered?
- (1) 2
 - (2) 10
 - (3) 12
 - (4) 18
28. In a spreadsheet, which data type is most suitable for storing whether a person is married or not?
- (1) Number
 - (2) Date/Time
 - (3) Currency
 - (4) Yes/No
29. Unicode was introduced to
- (1) replace binary coding system.
 - (2) support international languages.
 - (3) increase Internet access speed.
 - (4) replace ASCII code.
30. Which of the following HTML tag is invalid?
- (1) <h2>
 - (2)
 - (3) <link>
 - (4) <href>
31. Which of the following is **not** an essential feature to be considered when purchasing a laptop computer?
- (1) Capacity of the RAM
 - (2) Mouse and Keyboard
 - (3) Speed of the processor
 - (4) Cost
32. Which of the following URL is in **incorrect** form?
- (1) <http://www.edupub.gov.lk>
 - (2) <https://www.e-thaksalawa.moe.gov.lk>
 - (3) <https://moe.gov.lk>
 - (4) <https://www.doenets.lk>
33. Which of the following language is widely used to create Web pages?
- (1) Python
 - (2) Pascal
 - (3) HTML
 - (4) Java
34. Transitions in video editing are mainly used for
- (1) Audio mixing.
 - (2) Smooth change between clips.
 - (3) Adding subtitles.
 - (4) Exporting videos.
35. Which of the following formats is most commonly used for exporting videos?
- (1) .txt
 - (2) .mp4
 - (3) .docx
 - (4) .pptx

36. The process of trimming in video editing refers to
 - (1) cutting some parts of video clips.
 - (2) adding color filters.
 - (3) merging two audio files.
 - (4) increasing playback speed.
37. Which feature in presentation software allows to apply movement effects to objects like text and images?
 - (1) Transitions
 - (2) Animations
 - (3) Design themes
 - (4) Slide master
38. The field in an email used to hide recipients' addresses is
 - (1) To.
 - (2) Cc.
 - (3) Bcc.
 - (4) Subject.
39. Which of the following is **not** a valid email address?
 - (1) john.doe@gmail.com
 - (2) info@company.org
 - (3) student@edu.lk
 - (4) user@@mail.com
40. In the URL <https://www.example.com/index.html>, the part www.example.com represents
 - (1) the Path.
 - (2) the Domain name.
 - (3) the Protocol.
 - (4) the Resource.

* *

සියලු ම හිමිකම් ඇවිරිණි / முழுப் பதிப்புரிமையுடையது / All Rights Reserved]

ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව
இலங்கைப் பரீட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம்
Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka
ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව
இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரīட்சைத் திணைக்களம் இலங்கைப் பரīட்சைத் திணைக்களம் இலங்கைப் பரīட்சைத் திணைக்களம்

GIT E I, II

සාමාන්‍ය තොරතුරු තාක්ෂණ විභාගය, 2025
பொதுத் தகவல் தொழில்நுட்பப் பரீட்சை, 2025
General Information Technology Examination, 2025

සාමාන්‍ය තොරතුරු තාක්ෂණය I, II
பொதுத் தகவல் தொழில்நுட்பவியல் I, II
General Information Technology I, II

General Information Technology II

* Answer **four** questions only.

- (a) Assume that the computer is turned on, the desktop of the **Windows** operating system is visible in the display, a flash memory drive is connected to a USB port and this flash drive and hard drive are recognized as **E:** and **C:** drives by the computer, respectively.
Write down the essential computer operations required to perform the following tasks.
 - Opening the existing **GIT** folder in the root of the **C:** drive.
 - Transferring the **notes.doc** file from the **GIT** folder in **C:** drive to the root of the flash memory drive while keeping the original file.
 - Transferring the **tutorial.doc** file from the **GIT** folder in **C:** drive to the root of the flash memory drive without keeping the original file.
- (b) If you accidentally deleted the **tutorial.doc** file just transferred to the flash memory drive, can you recover it? Explain your answer.
- Assume that your school principal has requested to create a spreadsheet to analyze the marks obtained by the Grade 11 students at the zonal level examination. The principal has given you the following sample mark sheet for you to show his requirements.

Index No	Name with Initial	Mathematics	ICT	English
10225	K.A. Kumara	78	81	68
10229	T. Ravi	81	74	70
10220	A.M. Ahamed	65	79	74
10218	N.P.C. Mary	88	69	80
10235	M.N. Mallika	69	87	79

- The spreadsheet must contain the columns as given in the above sample mark sheet.
- The total marks obtained by each student for the **Mathematics**, **ICT** and **English** exam papers and the average mark must be displayed in the next two columns after the column with the name **English** and the names of these two columns should be "**Total**" and "**Average**" respectively.
- The highest and the lowest marks obtained for each exam paper must be displayed immediately after the students' details in next two rows and their description should be as "**Highest Marks**" and "**Lowest Marks**" respectively.
- The data on the spreadsheet should be displayed in the descending order based on the students' average mark.

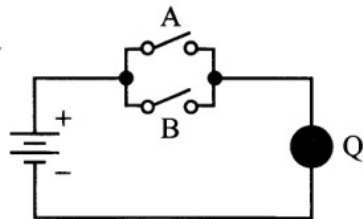
- (e) Display the number of exam papers each student got more than 74 marks in a column next to the **Average** and this column should be named as "**No. of Papers above 74**".

Based on the above requirements, answer the following questions:

- Draw the rough layout of the spreadsheet giving the column names as given in the sample data. In your layout you must include the column labels and row labels.
- Write the formulas to compute the above (b), (c) and (e) parts in the spreadsheet.
- Write down the steps needed to be followed to implement the above (d) part.

3. Logic gates are the fundamental building blocks of digital circuits. They are used in computers to perform logical operations and make logical decisions.

- What are the **three** basic logic gates used in computers?
- Consider the following circuit diagram.



- A and B are two switches and Q is a bulb, where the ON and OFF states of the switches and bulb are represented by 1 and 0 respectively. Tabulate a truth table to show all possible relationships among A, B, and Q.
 - Write the Boolean expression for the above truth table.
 - Which logic gate represents the functionality of the above circuit?
- (c) Consider the following truth table.

A	B	Q
0	0	0
0	1	0
1	0	0
1	1	1

- Write the Boolean expression for the above truth table.
- If A and B are two switches and Q is a bulb, where the ON and OFF states are represented by 1 and 0 respectively, sketch a circuit diagram to represent the above truth table.

4. The principal of your school asked you to create a database to manage the books in the library. Your principal has given you the following details:

The database should manage the following data.

- (a) The data of the students who borrow books.
- (b) The data of books that are available in the library.
- (c) Books borrowing records.

The library allows a student to borrow only one book at a time. The student can borrow another book only after returning the book he/she has borrowed.

Prepare a document to the principal outlining the followings:

- A. State **two** advantages in maintaining a database to store these data rather than managing them in a spreadsheet.
 - B. Suggest the required tables for this database.
 - C. Suggest the necessary field names and their data types needed for recording the student details.
 - D. Identify primary keys of the tables suggested.
 - E. What are the foreign keys required, explain in which tables they are needed, and why those foreign keys are required.
5. Nadeeka is working as an intern in a global IT company which uses its email service for communication among its employees. The employees of the company are in several countries. She needs to share confidential documents, update everyone on deadlines, and ask for feedback.
- (i) What are the potential risks of using email service?
 - (ii) Nadeeka is asked by the management of the company not to disclose the email addresses of the other recipients except that of the intended recipient if the email is sent to multiple recipients. Explain how this requirement can be achieved when sending emails.
 - (iii) Most email services allow messages to be arranged into groups (threads) on subjects of the email conversation. Briefly describe the importance of this feature in managing professional communication.
6. The following diagram shows a browser display of a web page.

ICT Society

Committee

- President : Mr. Nimal
- Secretary : Miss Nirmala
- Treasurer : Mr. Saman

Committee Members

Name	Class
Mr. Sunil	12 D
Miss Rupika	11 A

Write HTML code that would generate the above output when viewed through a web browser.

[See page eight]

7. Answer the following questions based on presentation software.
- (a) Explain the need of using a theme in creating a presentation.
 - (b) Why are speaker notes useful?
 - (c) Explain why slide layouts are useful in creating a presentation.
 - (d) Explain the main differences between animation and transition.
 - (e) What is the main advantage of saving a presentation file in the '.ppsx' format?
 - (f) State how to insert a new slide in between two slides in a presentation.

* * *



WWW.PastPapers.WiKi