සියලුම හිමිකම් ඇවිරිණි/முழுப் பதிப்புரிமையுடையது/All Rights Reserved

දකුණු පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව
தென் மாகாணக் கல்வித் திணைக்களம்
Department of Education, Southern Province

දෙවන වාර පරීක්ෂණය - 2025
இரண்டாம் தவணைப் பரீட்சை - 2025/ Second Term Test - 2025

ශ්‍රේණිය தரம் Grade	10	Information and Communication Technology I, II	කාලය நேரம் Time	3 hours

නම பெயர் Name ..... විභාග අංකය சுட்டிலக்கம் Index No. .....

Additional reading time is -10 minutes	Use additional reading time to go through the question paper, select the questions and decide on the questions that you give priority.

- Answer all questions.
- In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which is correct or most appropriate.
- Mark a cross (X) on the number corresponding to your choice in the answer sheet provided.

Further instructions are given on the back of the answer sheet. Follow them carefully.

1. Which of the following respectively shows a benefit provided to students and school administration by using a Learning Management System (LMS) respectively?
   (1) Ability to complete and upload school assignments from home instantly, and the ability to add quality learning materials to the system
   (2) Ability to supervise assignments and publish results, and to learn according to one's own time table
   (3) Ability to learn by submitting questions and sharing ideas through forums, and to complete and upload assignments from home instantly
   (4) Easy to manage and update student, teacher and school information, being able to engage in co-curricular activities via videos.

2. Which of the following statement is correct regarding computer generations?
   (1) Second-generation computers use the stored program concept
   (2) First-generation computers use high-level programming languages
   (3) Fifth-generation computers use operating systems with advanced graphical user interfaces.
   (4) The operating system was first used in fourth generation computers

3. Consider the following statements regarding meteorological data and information obtained by the Department of Meteorology within one month.
   A - The temperature in few days in Nuwara Eliya District are 20 ^{0}C, 16 ^{0}C and 15 ^{0}C.
   B - The average monthly temperature of Nuwara Eliya District is 14 ^{0}C.
   C - The lowest temperature in Nuwara Eliya District during this month is 10 ^{0}C.

   Which of the following options correctly distinguishes between data and information in the above statements?
   (1) A is data, while B and C are information.
   (2) A is information, while B and C are data.
   (3) A and C are data, while B is information.
   (4) B is data, while A and C are information

4. Which of the following includes only an input device and an output device, respectively?
   (1) Keyboard, Mouse
   (2) Printer, Touch screen
   (3) Touch screen, Keyboard
   (4) Keyboard, Printer

5. Which of the following answer is the decimal equivalent of the binary number 110110_2?
(1) 54 (2) 64 (3) 30 (4) 45

6. Which of the following answer is the octal equivalent of the hexadecimal number $2E_{16}$?
(1) 64_8 (2) 56_8 (3) 46_8 (4) 65_8

7. In the number 1011_X, the "X" represents the base of the number system. What is the correct answer that shows the number system (s) this number could belong to?
(1) Only binary (2) Binary, decimal, and octal only
(3) Only decimal (4) All binary, octal, decimal, and hexadecimal

8. Which answer correctly represents a volatile memory and a non-volatile memory, respectively?
(1) Random Access Memory, Register Memory (2) Register Memory, Read-Only Memory
(3) Read-Only Memory, Cache Memory (4) Read-Only Memory, Register Memory

9. Consider the following statements related to computer network topologies.
A - Every computer in the network is connected to every other computer in the network.
B - All connections are made by networking through a main cable.
C - A breakdown in one computer or cable disables the entire network.
Which is the correct answer that matches with the above characteristics of the network topologies?
(1) Mesh, Star, Ring topologies (2) Tree, Star, Ring topologies
(3) Mesh, Bus, Ring topologies (4) Mesh, Tree, Ring topologies

10. Consider the following statements.
A- It is a pointing device B -It is both an input and output device. C - It outputs a soft copy.
Which is the correct answer that matches with the above statements respectively.
(1) Keyboard, Printer, Computer Screen (2) Mouse, Touchpad, Computer Screen
(3) Webcam, Mouse, Keyboard (4) Microphone, Keyboard, Touch Screen

11. Which of the following shows an impact printer and a non-impact printer respectively.
(1) Line Printer, Dot Matrix Printer (2) Laser Printer, Thermal Printer
(3) Dot Matrix Printer, Laser Printer (4) Thermal Printer, Ink Jet Printer

12. Consider the following statements.
A - A dot matrix printer is connected to the computer.
B - A computer network switch is connected to the computer.
C - A computer monitor is connected to the computer.
Which of the following is the most appropriate answer regarding the ports described in the above statements, respectively?
(1) Parallel port, RJ45 port, VGA port (2) PS/2 port, Parallel port, Serial port
(3) Parallel port, HDMI port, PS/2 port (4) VGA port, Parallel port, Serial port

13. Consider the following statements related to data transmission modes.
A - Television broadcasting is an example of simplex data communication.
B - A walkie-talkie is an example of duplex communication.
C - A telephone conversation is an example of half-duplex communication.
(1) Only A is true, B and C are false (3) A is false, B and C are true
(2) All A, B, and C are true (4) All A, B, and C are false

14. What is the device used to connect two or more computer networks together?
(1) Network switch (2) Network hub
(3) Network router (4) Firewall

15. Which of the following shows a correct advantage and disadvantage of networking respectively.
(1) Sharing of resources, ability to exchange data and information quickly
(2) Sharing of resources, low security for data
(3) Network failures, spread virus
(4) Use of email, centralized software management

16. Which of the following is the USB flash drive with the minimum capacity that you can use to store and carry the following files required for a task assigned to the school ICT society?
Dance.mp4 (1.5 GB) Details.docx (1020 KB) search data.pdf (1000 MB) extra.txt (872Bytes)
(1) 2 GB (2) 4 GB (3) 8GB (4) 16 GB

17. Which of the following is equivalent to 8 GB of memory capacity?
(1) 2^{23} KB (2) 1024 x 1024 KB (3) 2^{33} Bytes (4) $2^{10} \times 2^{10} \times 2^{10} \times 8$ Bits

18. Consider the following statements.
A - The smallest unit used for data storage in a computer is the bit.
B - Register memory is the fastest and has the highest storage capacity among storage devices.
C - Cache memory is also known as processor memory.
Which of the following option contains the **incorrect** statement?
(1) Only A and B (2) Only B
(3) Only C (4) Only B and C

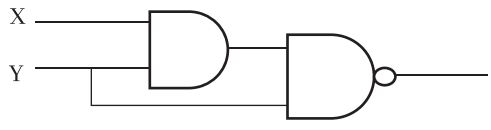
19. Consider the following statements related to the BCD coding system.
A - It was used only for representing decimal numbers.
B - A single digit is represented using three bits.
C - The BCD code 00111001 is represented the decimal value of 39.
What is the correct answer?
(1) Only A and B are correct (2) Only A and C are correct
(3) Only B and C are correct (4) All of A, B and C are correct

20. What is the circuit symbol corresponding to the OR logic gate?
(1) (2) (3) (4)



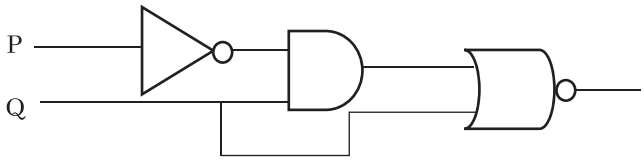
21. In a popular music program, to advance from one round to the next, both the judges' approval (A) and SMS votes (B) are required. Which of the following Boolean expressions corresponds to the above scenario?
(1) A AND B (2) A OR B (3) NOT (A AND B) (4) NOT (A OR B)

22. What is the Boolean expression corresponding to the logic circuit shown below?



(1) $\overline{(X.Y).Y}$
(2) $X + Y + Y$
(3) $X.Y.\overline{Y}$
(4) $\overline{X + Y + Y}$

23. What will be the output of the following logic circuit when 0 is given for P and 1 is given for Q?

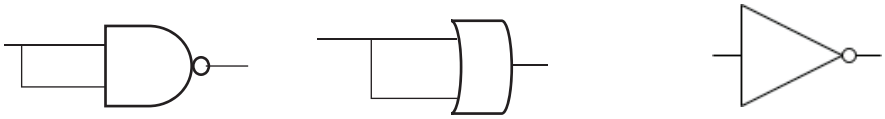


(1) 1
(2) Q
(3) $\bar{P}$
(4) 0

24. Consider each of the following statements.
A - In an OR logic gate, the output should be 0 if at least one input is 0.
B - In an AND logic gate, the output is 0 when all inputs are 0.
C - The output of the NOT logic gate is not affected by any of its inputs.
Which of the above statements is correct?

(1) Only A and B (2) Only A and C (3) Only A (4) Only B

25. Among the following logic circuits, which circuit gives the same output as the given input?



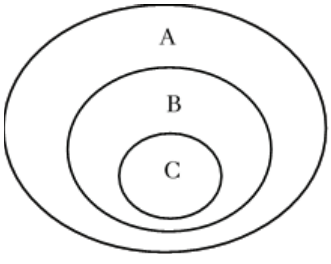
(1) X and Y (2) X only (3) Y only (4) None of the above

26. Which of the following statement is **incorrect** regarding logic gates?
(1) A computer is built from a collection of complex digital circuits.
(2) The basic building block in electronic circuits are the logic gate.
(3) A logic gate consists of components such as transistors, diodes and resistors.
(4) The central processing unit is built only by using AND logic gates.

27. The initial operations of a computer are shown below as A to D but not in correct order. Which option presents them in the correct sequence?
(1) Run the POST program.
(2) The CPU accesses the BIOS.
(3) Hardware is checked according to memory.
(4) The operating system is loaded into Random Access Memory.

(1) A B C D (2) B A C D (3) C A D B (4) B A D C

28. The diagram below shows the relationship between hardware and software. A, B, and C respectively are,



(1) Hardware, Software, Liveware
(2) Application Software, System Software, Hardware
(3) Hardware, Application Software, System Software
(4) Hardware, System Software, Application Software

29. After the hard disk in a computer has been formatted, which of the following software should be installed first?
(1) Operating System (2) Web Browser (3) Antivirus Software (4) Open Office Writer

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30. Which of the following contains only language translator software?

A - Assembler, Interpreter, Compiler
B - Android, Windows, Ubuntu
C - Android, Interpreter, Compiler
D - Android, Interpreter, Linux

31. A new scanner was connected to a computer. What specific software needs to be installed on the computer for this device to function properly?

(1) Task Manager
(2) Device Driver
(3) Backup Software
(4) Antivirus Software

32. Which of the following is **not** a type of alignment that can be used when formatting a document in word processing software?

(1) Align Text Left
(2) Center
(3) Align Text To Top
(4) Justify

33. File management is one of the function of the operating system. Which of the following is an activity related to file management?

(1) Storing processed data until it is sent to the output device
(2) Controlling devices connected to the computer
(3) Creating folders as needed and deleting unnecessary ones
(4) Managing all processes and required resources in the computer

34. Which of the correct answer that matches the following operating systems?

A -	Microsoft Corporation	1 -	Ubuntu
B -	Apple Inc.	2 -	Mac OS
C -	Google Inc.	3 -	Android
D -	Linux Foundation	4 -	Windows

(1) A- 4, B-2, C-3, D-1 (2) A-2, B-4, C-1, D-3 (3) A-3, B-2, C-1, D-4 (4) A-2, B-1, C-4, D-3

35. Which of the following is the incorrect statement regarding the "Save" and "Save As" commands?

(1) Both "Save" and "Save As" commands can be used when saving a document for the first time.
(2) The "Save As" command can be used to save an existing document with a different name.
(3) The "Save" command can be used to save an existing document again under the same name.
(4) The usage of "Save" and "Save As" commands is identical.

36. Which of the following best explains the importance of the print preview in a word processing document?

(1) It allows the user to view the document before printing.
(2) It allows checking whether the document will print or not.
(3) It allows to print a document.
(4) It is used to proof read the document before printing.

37. Compare columns A and B regarding word processing software.

A		B	
1	Portrait and Landscape	X	Alignment
2	Bullets, Numbering, Multilevel	Y	Orientation
3	Left, Center, Right, and Justify	Z	List

When columns A and B in the above table are correctly matched, the answer will be,

(1) 1- X, 2 - Y, 3 - Z (2) 1- Y, 2 - X, 3 - Z (3) 1- Z, 2 - Y, 3 - X (4) 1- Y, 2 - Z, 3 - X

38. Consider the following statements regarding the uses of word processing software.

X- It provides features such as shapes, pictures, tables, WordArt, etc., to enhance the visual effect of documents during their creation.

Y- It uses a thesaurus to correct spelling and grammar errors in a document.

Z- The mail merge feature is available only in word processing software.

Among the above statements,

(1) Only X and Y are correct.
(2) Only Y is correct.
(3) Only X and Z are correct.
(4) All are correct.

39. Which of the following statement about word processing software is correct?

(1) Internet access is mandatory when creating a word processing document.
(2) When a word processing document is saved, its file extension is .docs and it cannot be saved as a .pdf.
(3) Various versions of word processing software exist, and internet access is mandatory to use new versions.
(4) A password can be applied to a word processing document to protect it from external access.

40. Which of the following tool helps to adjust the line spacing and paragraph spacing in a document created using word processing software?

(1) 
(2) 
(3) 
(4) 

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දකුණු පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව
தென் மாகாணக் கல்வித் திணைக்களம்
Department of Education, Southern Province

දෙවන වාර පරීක්ෂණය - 2025
இரண்டாம் தவணைப் பரீட்சை - 2025/ Second Term Test - 2025

ශ්‍රේණිය தரம் Grade	10	Information and Communication Technology II

නම பெயர் Name ..... විභාග අංකය சுட்டிலக்கம் Index No. .....

Information Communication Technology II
• Answer only **five questions** including the **first question** and **four other selected questions**. • The first question carries 20 marks and each other question carries 10 marks.

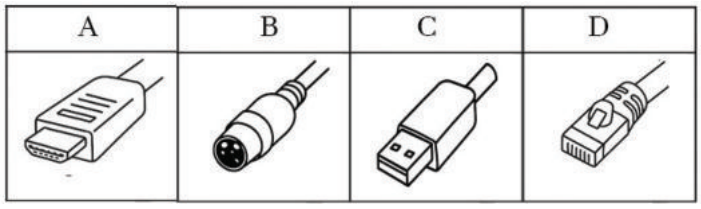
1. (i) For the following statements labelled A to D regarding computer memory, indicate whether they are true or false by indicating '√' for true or 'X' for false next to each label.

A - A hard disk is a non-volatile memory
B - Random Access Memory is volatile memory
C - Register memory is non-volatile memory
D - A USB flash drive is volatile memory

(ii) In the table below, Column X lists several software types from A to D, and Column Y lists examples from 1 to 4 in no particular order. Match X and Y correctly and write the label with the corresponding number. (Label → Number)

X		Y	
A	Operating system	1	Ubuntu
B	Application software	2	Anti-virus software
C	Utility software	3	LibreOffice Writer
D	Language translator	4	Compiler

(iii) Figure 1 shows four cable ends labeled A to D.



For the following statements, write the corresponding label. (Label → Number)

I - Connecting the computer to a computer network.
II - Connecting a digital television to the computer.
III - Connecting a mouse to the computer.
IV - Connecting a modern printer to the computer.

(iv) If the decimal value for the character 'e' is 101, write the ASCII value for the character 'k'. (Show your calculation).

(v) Figure 2 shows an abacus representing a binary number. Obtain the equivalent octal value for the value shown.



(vi) Arrange the following storage devices in ascending order based on their data access speed (Represent as A- R- C)

A - Magnetic Tape

B -Cache Memory

C -Pen Drive

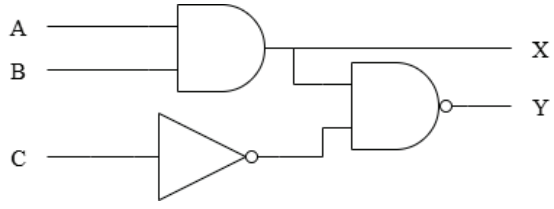
D -RAM

E -Memory Registers

(vii) File management is a function of the operating system. List two services provided by the OS for file management.

(viii) Draw the logic circuit for the following Boolean expression using AND and OR gates.
Q=A.(B+C)

(ix) Based on the logic circuit in Image 3, if the input values for P, Q and R are respectively 1, 1, and 0, what will be the outputs for X and Y? Write them in order.



(x) For the following statements related to word processing software,state whether they are true or false by indicating '√' for true or 'X' for false next to each label

A - Although tables can be inserted into a document, there is no facility to insert graphics.

B -  The tool can be used to copy formatting like font styles and apply them to other text.

C - Portrait and Landscape are page orientations available in word processing software.

D - Find and Replace can be used to obtain a print preview.

2. (i) Following are some instances where Information and Communication Technology (ICT) is used in medical testing. The machinery that can be used for these purposes is given in brackets. Match the instance with the machine and write them by labels.

Function:-

A - 3D imaging of internal body parts separately.
B - Obtaining detailed images of internal body parts using echoes.
C - Monitoring heartbeats.
D - Recording brain activity.

Machinery:-

W- Electroencephalography (EEG)
X - Electrocardiography (ECG)
Y - Magnetic Resonance Imaging (MRI)
Z - Computerized Axial Tomography (CAT)

(ii) In the table below, Column X lists computer generations from A to D and Column Y lists the main hardware technologies used from 1 to 4.

X		Y	
A	First Generation	1	Transistors
B	Second Generation	2	Vacuum Tubes
C	Third Generation	3	Micro Processors
D	Forth Generation	4	Integrated Circuits

Match Column X and Column Y correctly and write answers using labels.

(iii) Although Information and Communication Technology is our closest friend in life, it also has misuses. Write two demerits of ICT.

(iv) Write two applications of Information Technology in the agricultural sector.

(v) Using Information and Communication Technology for businesses facilitates makes business operations easier. Video conferencing is one such instance. Write one advantage and one disadvantage of video conferencing.

3. (i) Consider the following statements related to secondary storage devices.

A - Nisidu takes a soft copy of a photograph he prepared to another location to get a printed copy of it.
B - Shelini uses the main storage device within the computer to store the file she prepared.
C - Hirusha has stored many photos on this device in his digital camera.
D - Ayesha, a chief bank manager, has backed up files from his server computer here.

Identify the suitable storage media for the above statements and write them using labels.

W – Hard Disk X – Magnetic Tape Y - USB Flash Drive Z - Memory Card

(ii) Name the two main types of data transmission media and provide one example for each.

(iii) Write two instances where infrared rays are used as a data transmission medium.

(iv) Write two differences between a network switch and a network hub as computer networking devices.

(v) Write the three main types of computer networks.

4. (i) In coloring, the decimal values for the Red, Green, and Blue (RGB) of a selected color are 214, 54, and 65 respectively. Accordingly,

A - Calculate the binary value corresponding to R.

B - Calculate the octal value corresponding to G.

C - Calculate the hexadecimal value corresponding to B.

(ii) Write one use of the hexadecimal number system.

(iii) Write one usage of each of the following Coding Systems used in computers.

A-BCD B-EBCDIC C-ASCII D- UNICODE

(iv) For each of the following numbers, write the most significant digit/bit and the least significant digit/bit.

A - 73.0_8 B- 0.032 C- 0.00101_2 D- $EF4_{16}$

(v) Write whether the following statements are true or false in front of the label.

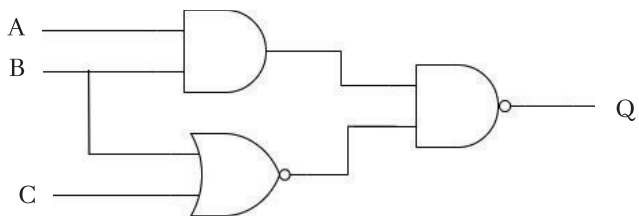
A - A nibble is half a byte.

B - A character has a capacity of one byte.

C - The smallest unit of measuring data is the byte.

D - Kilobyte (KB) value of 210 x 210 is equal to one terabyte (TB).

5. (i) Construct the Boolean expression and the truth table for the following logic circuit



(ii) (a) Draw a suitable logic circuit using only NOR, AND and NOT gates for the Boolean expression $\overline{(A.A)}.(B+\bar{C})$

(b) Construct the truth table for the circuit you drew.

(iii) Match the correct number from column B to each letter in column A.

A		B	
A	OR	1	Output is 1 only when all inputs are 1
B	AND	2	Can never have two different inputs at the same time
C	NOT	3	When inputs are 0,0 the output is 1
D	NOR	4	Equivalent to a circuit with two switches connected in parallel

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සියලුම විෂයන්ට අදාල ප්‍රශ්න පත්‍ර/පිළිතුරු පත්‍ර/සටහන් ලබා ගැනීමට Past Papers Wiki වෙත පිවිසෙන්න

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6. (i) Buthsadi went to a famous shop called PC Shop to buy a new computer, where she was assisted by a shop employee named Akila. Do you agree or disagree with Akila's following suggestions? Give reasons.

(a) Non-licensed operating systems are more suitable than licensed ones.

(b) A 1TB hard drive should be partitioned into multiple parts for better use.

(ii) Write three information maintained by an operating system regarding a file.

(iii) Compare and write two differences between Command Line Interface (CLI) and Graphical User Interface (GUI).

(iv) Classify the following operating system software into the appropriate categories in the table below

(Linux, ATM machine, Mac OS, MS DOS, Ubuntu, Windows 7)

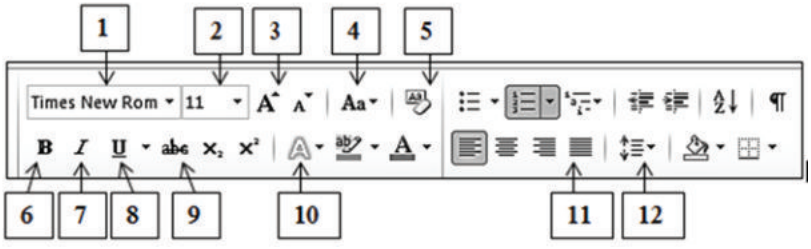
Single user	Multi User	Multi-tasking	Real time

Draw the above table in your answer sheet and provide the answers.

(iv) Write the corresponding file extensions for the following file types

A - Word B - Excel C - Power Point D - Executable

7. (i) Below is a part of the toolbar of a word processing software. Based on that, write down the numbers of the tools that can be used to format image 1 into the format of image 2.



Artificial intelligence (AI) refers to the simulation of human intelligence in machines (device) that are programmed to think and learn like humans.

image 1

Artificial Intelligence (AI) refers to the simulation of human intelligence in machines ~~(Device)~~ that are programmed to *think and learn like humans*.

image 2

(ii) Write the shortcut key used for the following actions when using word processing software.

A - Aligning both ends of a paragraph in a document

B - Finding a specific word in a document and replacing it with another word

C - Inserting a hyperlink into content in a document

D - Reopening a saved document

The following are some tools found in word processing software. Write answers for the following (iii), (iv), (v), (vi) questions based on that.



(iii) Write the use of tools 1 and 2 from the above tools.

(iv) Write the label of the tool that can be used to perform the following tasks

(a) To get a box with text

(b) To display the first letter of a word over several lines

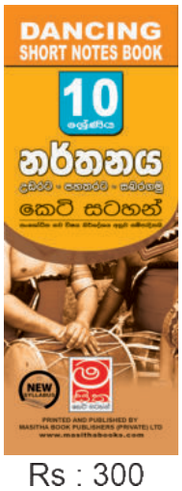
(v) What information can be obtained by using the tool 10 from the above tools?

(vi) Which tool can be used to find spelling and grammar errors in a document?

***

සියලුම විෂයන්ට අදාල ප්‍රශ්න පත්‍ර/පිළිතුරු පත්‍ර/සටහන් ලබා ගැනීමට Past Papers Wiki වෙත පිවිසෙන්න

10 ශ්‍රේණිය කෙටි සටහන් පොත් සංශෝධිත නව විෂය නිර්දේශයේ පාඩමෙන් පාඩමට



Rs : 300



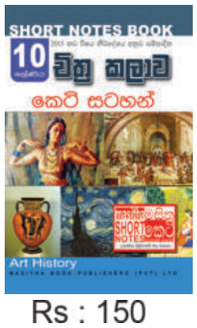
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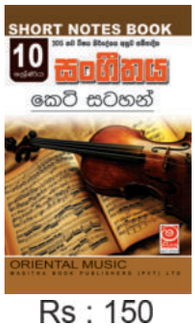
Rs : 300



Rs : 300



Rs : 150



Rs : 150



Rs : 150



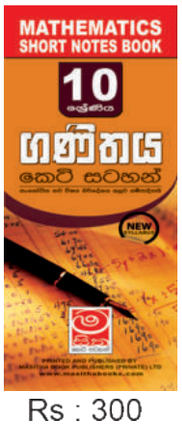
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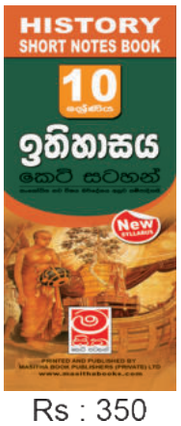
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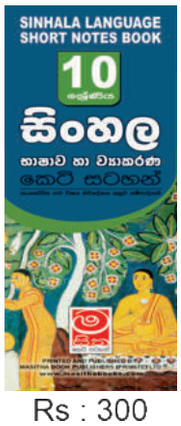
Rs : 200



Rs : 300



Rs : 350



Rs : 300



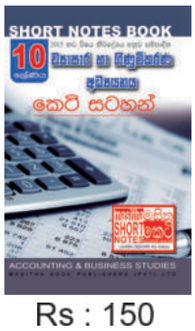
Rs : 300



Rs : 150



Rs : 200



Rs : 150



Rs : 300

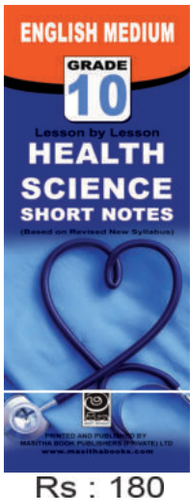


Rs : 300

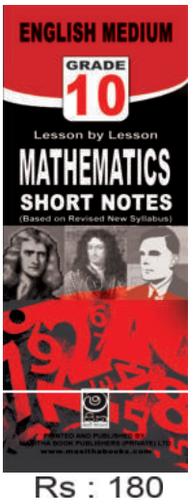


Rs : 300

මෙම කෙටි සටහන් පොත් සකස් කොට ඇත්තේ ජාතික අධ්‍යාපන ආයතනය මගින් සම්පාදනය කොට ඇති නව විෂය නිර්දේශය අනුව, විෂය ප්‍රවීණත්වයෙන් යුත් සම්පාදක මණ්ඩලයක් විසිනි, එහෙයින් මෙහි අන්තර්ගත සියලු සටහන් එම විෂය නිර්දේශයේ සෑම මාතෘකාවක්ම ආවරණයකොට තිබේ. මෙම ග්‍රන්ථ සම්පාදනය කිරීමේ දී පූර්ණ අවධානය යොමුකොට ඇත්තේ සිසුන්ට මෙන්ම ගුරුවරුන්ට ද අවශ්‍යයෙන්ම මතකයේ තබා ගත යුතු සියලු කරුණු අන්තර්ගත කරමින් වන හෙයින් වෙනත් අතිරේක ග්‍රන්ථ පරිහරණයකින් තොරව වුවද අදාල විෂය නිර්දේශයේ වැදගත් කරුණු සියල්ල ඉතා පහසුවෙන් හැදෑරීමේ මෙන්ම මතකයේ රඳවා ගැනීමේ හැකියාව ද ලැබෙනු ඇත.



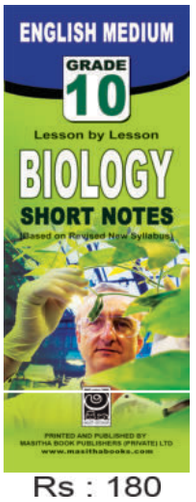
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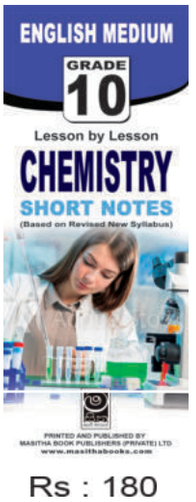
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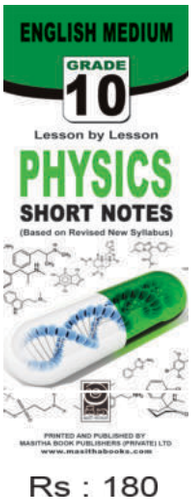
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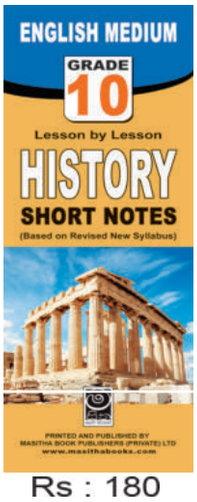
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