

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
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GIT|01|E|I,II

සාමාන්‍ය තොරතුරු තාක්ෂණ විභාගය, 2016
 பொதுத் தகவல் தொழினுட்பவியல், 2016
 General Information Technology Examination, 2016

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

General Information Technology II

* Answer four questions only.

1. (a) In order to provide security for the computer laboratory in a school, students who have permission to use the laboratory are required to enter their school admission number (X) and a password (Y) to a device installed at the door. If both the admission number and the password are correct, the door (Z) will be opened. If either one of them or both are incorrect, the door will not be opened.

Consider the following states:

Scenario	State
Admission Number (X) and Password (Y) are correct	'1'
Admission Number (X) or Password (Y) or both are incorrect	'0'
Door (Z) will be opened	'1'
Door (Z) will not be opened	'0'

- (i) Copy the following table to your answer book and fill in the column for state of Z.

State of X	State of Y	State of Z
0	0	
0	1	
1	0	
1	1	

- (ii) Draw the logic gate represented by the above table. Indicate the inputs and the output clearly.
- (b) Draw the equivalent logic circuit diagram for the following expression:
 $(A \text{ AND } (\text{NOT})B) \text{ OR } \text{NOT}(A) = C$
- (c) **During the same period**, three students groups of a class have been assigned the following activities to be completed using a suitable and available computer.
- Enter data about growth of plants, in the field.
 - Record sounds of birds at a level above the ground, take photographs in the environment and enter relevant data.
 - Enter a set of data written in a CR book, to the computer.
- The class has a desktop computer, a laptop computer and a palmtop computer.
 Identify the most suitable type of computer to carry out each of the above activities and write down the type of the computer against the activity number in your answer book.
- (d) Consider the following scenario:

A student needs to prepare a report using a word-processing software package (P). Before start typing the report, she scans the hard disk of the computer using an antivirus software (Q). After completing her report, she used a backup software (R) provided by the operating system (S) to back up all the files in a specific folder in the hard disk to a flash memory stick.

Identify and write down the correct software type of (P), (Q), (R) and (S) in the above paragraph from the list of terms given below.

List of Terms: {Application software, Systems software, Utility software}

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