

Department of Examinations - Sri Lanka

G.C.E. (O/L) Examination - 2018

80 - Infromation and Communication Technology

Marking Scheme



This document has been prepared for the use of Marking Examiners. Some changes would be made according to the views presented at the Chief Examiners' meeting.

Amendments to be included

Andreas of he wasterness

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37. How many times will the $ mark be displayed after the execution of the following pseudocode?
     BEGIN
          P = 0
          REPEAT
              Q = P MOD 2
              IF Q =1 THEN
                 DISPLAY '$'
              ENDIF
              P = P + 1
          UNTIL P < 5
      END
                                                                  (4) 4
                        (2) 2
   (1) 1
38. Consider the flowchart on the right which inputs a number and displays
   the message 'Valid Mark' if the input number is between 0 and 100.
                                                                              START
   What should be the correct terms for labels P, Q and R
                                                                              Input N
   respectively?
   (1) N<=100, No, Yes
   (2) N<=100, Yes, No
                                                                           No
   (3) N=100, No, Yes
   (4) N=100, Yes, No
                                                     Display 'Invalid Mark'
                                                                                  0
                                                                           Display 'Valid Mark'
                                                                              (END)
39. Which of the pseudocodes is equivalent to the logic
   of the flowchart on the right?
                                                                          (START)
                                    BEGIN
        BEGIN
               READ C
                                         READ C
                                                                          Input C
               F = 9*C
                                         3F = 9*C/5 + 32
                                         SHOW F
               F = F + 32
                                    END
                                                                          F=9*C
               F = 5*F
               SHOW F
         END
                                                                          F = F/5
          BEGIN
                               (4)
    (3)
                                                                          F = F + 32
                                         READC
               READ C
                                         F = 9*C
               F = 9*C/5 + 32
               SHOW F
                                          F = C + 32
                                                                          Display F
                                          F = 5*C
          END
                                          SHOW F
                                                                            END
                                     END
40. Which of the following is/are correct regarding programming languages?
       A - Machine language uses binary digits (bits) based instructions which a computer can
            understand.
        B - Assembly is a low level machine dependent programming language which uses a symbolic
            representation of machine code.
        C - High level programming languages are machine independent.
                                              (3) B and C only
                                                                   (4) All A, B and C
    (1) A only
                         (2) A and C only
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ශීී ලංකා විභාග දෙපාර්තමේන්තුව இலங்கைப் பரீட்சைத் திணைக்களம்

රහසායයි

අ.පො.ස. (සා.පෙළ) විභාගය - 2018 க.பொ.த (சா.தர)ப் பரீட்சை - 2018

විෂයය අංකය பாட இலக்கம் 80

විෂයය பாடம்

තොරතුරු හා සන්නිවේදන තාක්ෂණය

I පතුය - පිළිතුරු I பத்திரம் - விடைகள்

පුශ්න අංකය ඛා්ණා இல.	පිළිතුරු අංකය ඛානා இහ.	පුශ්න අංකය ඛා් னா இல.	පිළිතුරු අංකය ඛණ්ඩ இல.	පුශ්න අංකය வினா இல.	පිළිතුරු අංකය ඛ්කட இல.	පුශ්න අංකය ඛාි னா இல.	පිළිතුරු අංකය ඛාකட இல.
01.	01	11.	01	21.	02	31.	03
02.	02	12.	02	22.	01	32.	01
03.	01	13.	01	23.	04	33.	02
04.	04	14.	03	24.	02	34.	02
05.	02	15.	03	25.	01	35.	03
06.	02	16.	01	26.	03	36.	03
07.	04	17.	02	27.	01	37.	ALL
08.	02	18.	04	28.	03	38.	02
09.	01	19.	02	29.	03	39.	03
10.	04	20.	01	30.	01	40.	04

විශේෂ උපදෙස් விசேட அறிவுறுத்தல் 🖯 ஒரு சரியான விடைக்கு

එක් පිළිතුරකට ලකුණු

බැගින් புள்ளி வீதம்

මුළු ලකුණු / மொத்தப் புள்ளிகள்

පහත නිදසුනෙහි දක්වෙන පරිදි බහුවරණ උත්තරපතුයේ අවසාන තීරුවේ ලකුණු ඇතුළත් කරන්න. கீழ் குறிப்பிடப்பட்டிருக்கும் உதாரணத்திற்கு அமைய பல்தேர்வு வினாக்களுக்குரிய புள்ளிகளை பல்தேர்வு வினாப்பத்திரத்தின் இறுதியில் பதிக.

නිවැරදි පිළිතුරු සංඛනව சரியான விடைகளின் தொகை 25 40

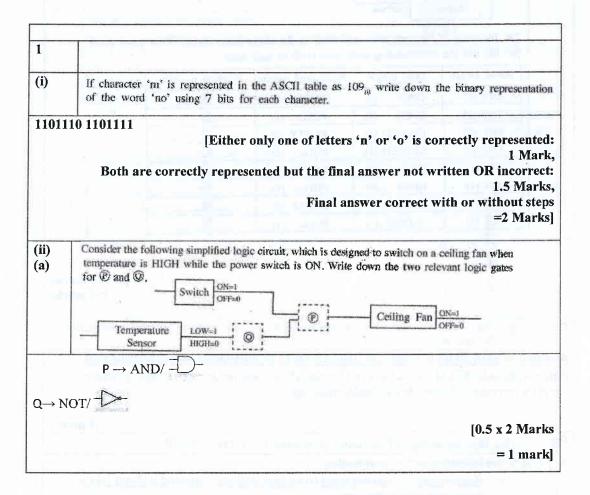
I පතුයේ මුළු ලකුණු பத்திரம் I இன் மொத்தப்புள்ளி 25 40

Paper II

Special Notes:

.../... indicate only one of the options included are considered as correct answer Underlined key words or synonyms are mandatory

[..] Indicates marking guidelines



2. (i) (i) People who work with computers for long periods sometimes complain of certain health issues. The following shows the Health Issues (labeled (3-(3)), Possible Reasons (labeled (3-(1))) and Possible Solutions (labeled (2-(3))).

Match each health issue 0-0, with a possible reason 0-0 and a possible solution 0-9 and write down using their labels.

(Note: There can be more than one possible solution for a given health issue. However, you are required to write only one solution.)

Health Issue	Possible Reason
⊕ - Carpel Tunnel Syndrome	 Poor posture or a non-ergonomically designed work space
Computer Vision Syndrome (Digital Eye Strain)	Painful compression of a nerve as it passes across the front of the wrist
O Museuloskeland disorder	(2) Looking at computer compan for prolonged exclude

Possible Solutions

- Rest the eye muscles by looking up and staring for a moment at objects in the distance
- O Stand up and stretch the back, arms and fingers frequently
- ® Take regular short breaks from a repetitive task by using an alarm as a reminder
- Avoid bending the wrists and keep the arms, wrists and fingers aligned when typing
- The Live keyboard shortcuts to reduce typing and mouse movements
- 1 Avoid hitting the keys too hard while typing / use souch typing
- ® Keep the computer screen about 15 to 20 degrees below eye level

Health	Possible	Possible		
Issue	Reason	Solution		
A	Н	Q/R/S/T/U		
В	I	P/R/V/W		
С	G	Q/R		

OR

$$A \rightarrow H \rightarrow Q/R/S/T/U$$

 $B \rightarrow I \rightarrow P/R/V/W$
 $C \rightarrow G \rightarrow Q/R$

1 mark each for correct mapping of Health Issue with Possible Reason

[1 Mark *3

= 3 Marks

1 mark each for correct mapping of *Possible Reason/Health Issue*with *Possible Solution*

[1 Mark *3

= 3 marks

**Note 1: If the answer include incorrect mappings with correct mappings NO marks awarded

**Note 2:only the correspondence between each column in row is important and the order of columns does not matter (i.e. Solution

Reason OR Reason

Solution is acceptable)

(ii)

For each of the issues (labelled (\$\infty\$) below, identify the relevant term from the list and write down the term against each relevant label.

- A person receiving an small that appears to have some from a well-known organization and asking for personal information such as the credit card number, the user name and the password of the person's online banking facility
- ® The practice of taking someone else's work and publishing them off as one's own
- © A person having unauthorized access to a computer network and accessing personal information such as names and addresses of customers
- A person selling unauthorized copies of a licensed software at a 5% of the original price

List of terms ! {fair use, forgery, hacking, phishing, plagiarism, piracy, spam}

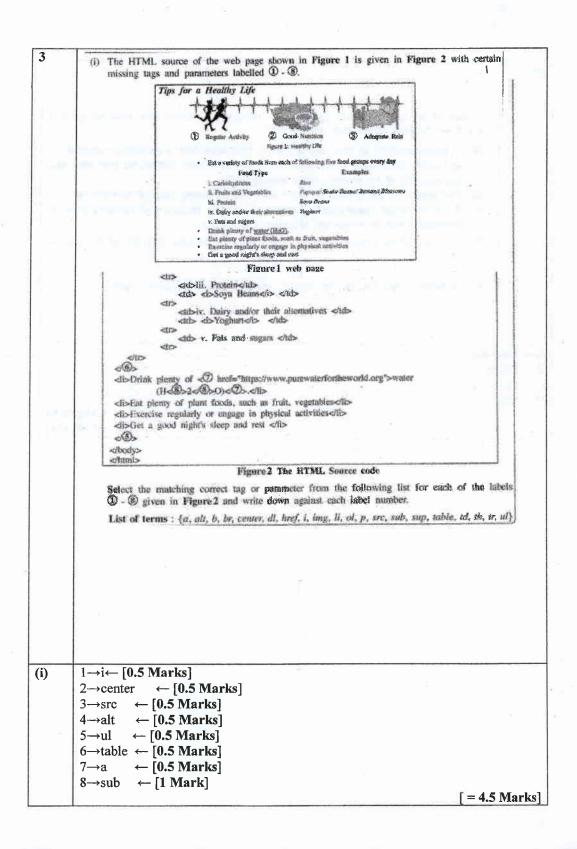
A→ Phishing

B→ Plagiarism

 $C \rightarrow Hacking$

D → Piracy

[1 Marks*4 =4 Marks]



(ii)	(ii) Use the	followin	g list of terms in answering questions (a) and (b) below.					
	List of terms: { DNS server, domain name, FTP, IP address, mail server, path to resource, protocol, resource, SMTP, spam mail, streaming server, top level domain, uniform resource locator (URL), web server, World Wide Web (WWW) }							
	(a) Identify the terms again	e correct nst the l	t term from the above list for labels ①-② below and windel. ② ⑤	ite the correct				
		http://	www.edupub.gov.lk/Books/English/11/ICT/Chapter1.pd	Add Brown				
		- Next	Ø	extitional -				
	rotocol							
	world wide wel Iomain name)						
	op level domain	n						
	oath to resource							
-	resource							
$V \rightarrow \iota$	uniform resourc	e locat	or/URL					
"jik	7,016 2 14			[0.5 Marks* 7 =3.5 Marks]				
(b)			s given in Θ - Θ with the correct terms from the list given term against the label.	en above and				
		(0)	Delivers web pages to clients using HTTP					
		0	Helps uniquely identify a computer on the internet					
		0	Every email that is sent passes through a series of this type of servers along its way to its intended recipient					
	handana i	0	Unwanted email messages					
A	web server							
$B \rightarrow I$	P Address Mail Server		[A,C,D correct 0.5 ea + 0.5 for B due to Tamil Tra	anslation Error				
4(3)	T		adsheet segment gives below containing prices of two mo	=2 Marks]				
4(i)			is accessories.	acis in aspecp				
			Poor (RA)					
			Exerceiptions Monata A Monata B Exerceiptions Monata A Monata B Exerceiptions Monata A Monata B Exerceiptions Monata A Monata B					
			1936 1756 Marke divice 466 978					
	ACTUAL OF		Total textosting					
			delivery Cons 55503) 725.03					
			Treffwary Charge 150					
	The delivery cost is Rs. 350 and this cost is shown in cell B10. "Total" and "Total including							
	(a) Write dow	m the fo	e to be calculated for the two models. rmula (hat should be entered in cell B6 to calculate the "Fota metion(cell1:cell2).	F for Model A				
	=sum(B3:B5		sum(B3:B5)					
(a)	sm E.fei		**Note: No	[=1.5 Marks] partial marks				

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