

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

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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
                                             (3) 3
                                                                  (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
                               (4)
                                     BEGIN
          BEGIN
    (3)
                                                                          F = F + 32
                                         READ C
               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.
                                                                   (4) All A, B and C
                                              (3) B and C only
    (1) A only
                         (2) A and C only
```

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 ඛා් জ ா இல.	පිළිතුරු අංකය ඛ්නා இහ.	පුශ්න අංකය வினா இல.	පිළිතුරු අංකය ඛාණ	පුශ්න අංකය வினா இல.	පිළිතුරු අංකය ඛ්කட இல.	පුශ්න අංකය ඛා් னா இல.	පිළිතුරු අංකය ඛාක
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

01 × 40

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

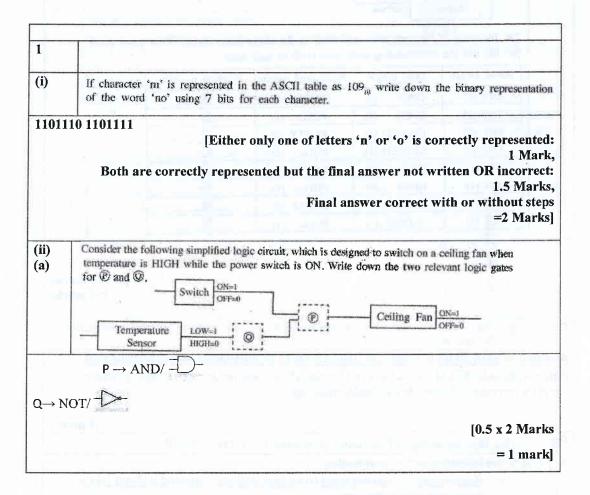
I පතුයේ මුළු ලකුණු பத்திரம் I இன் மொத்தப்புள்ளி 25 40

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) 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
© - Musculoskeletal disorder	① - Looking at computer screen for prolonged periods

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
- ◆ Position the computer screen to avoid glare / use curtains or drapes on windows
- ® 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 (3.0)) 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
- 18 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, plagtarism, piracy, spam}

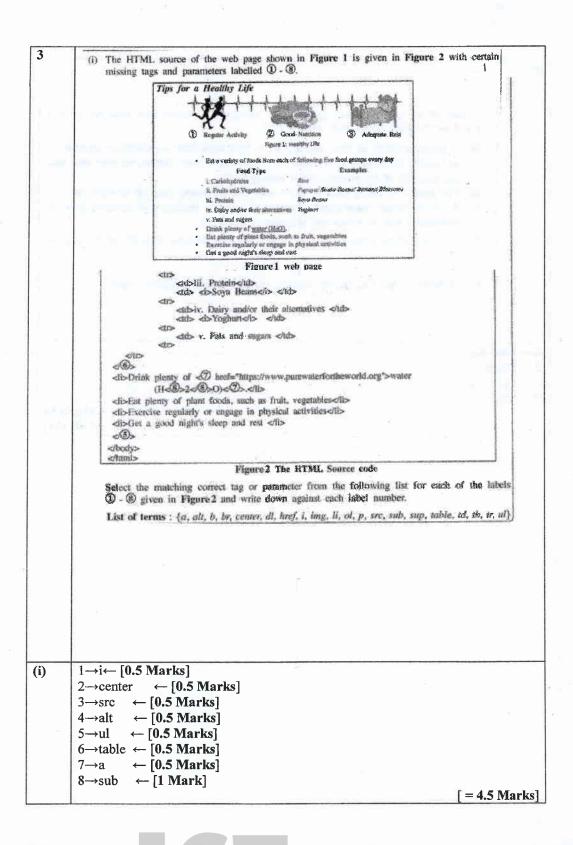
A→ Phishing

B→ Plagiarism

C → Hacking

D → Piracy

[1 Marks*4 =4 Marks]



	(ii) Use the	following	list of terms in answering questions (a) and (b) below.	and the same of the same			
10	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 correct term from the above list for labels ①-② below and write the correct terms against the label. ① Shift://www.edupub.gov.lk/Books/English/11/ICT/Chapter1.pdf						
			(6)				
P→ p:	rotocol	10/10/5	(0.121)	TETRICI			
	vorld wide wel	b					
	lomain name						
	op level domain						
-	ath to resource	;					
	esource		7.77				
V→ u	miform resourc	ce locate	or/URL	[0.5 Marks* 7 =3.5 Marks]			
(b)			given in Q-Q with the correct terms from the list given term against the label.				
		(A)	Delivers web pages to clients using HTTP				
		10	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				
	ا رمیسلیس	0	Unwanted email messages				
A 11	ich cerier						
	veb server P Address						
B→ IF	veb server P Address Mail Server						
B→ IF	P Address Iail Server						
$B \rightarrow IF$ $C \rightarrow M$	P Address Iail Server		[A,C,D correct 0.5 early to the contract of the correct of the co				
$B \rightarrow IF$ $C \rightarrow M$	P Address Aail Server pam		+ 0.5 for B due to Tamil Tr	anslation Error =2 Marks]			
$B \rightarrow IF$ $C \rightarrow M$	P Address Mail Server pam		+ 0.5 for B due to Tamil Tr	anslation Error =2 Marks]			
$B \rightarrow IF$ $C \rightarrow M$ $D \rightarrow S$	P Address Mail Server pam		+ 0.5 for B due to Tamil Tr	anslation Error =2 Marks]			
$B \rightarrow IF$ $C \rightarrow M$ $D \rightarrow S$	P Address Mail Server pam		+ 0.5 for B due to Tamil Tr	anslation Error =2 Marks]			
$B \rightarrow IF$ $C \rightarrow M$ $D \rightarrow S$	P Address Mail Server pam		+ 0.5 for B due to Tamil Tr sishect segment gives below containing prices of two mo r accessories. Description Policy (Sc.)	anslation Error =2 Marks]			
$B \rightarrow IF$ $C \rightarrow M$ $D \rightarrow S$	P Address Mail Server pam		+ 0.5 for B due to Tamil Tr sishest segment gives below containing prices of two more accessories. Description Price 38.3 D	anslation Error =2 Marks]			
$B \rightarrow IF$ $C \rightarrow M$ $D \rightarrow S$	P Address Mail Server pam		+ 0.5 for B due to Tamil Tr sishest segment gives below containing prices of two more accessories. Description Price 98.5 D	anslation Error =2 Marks]			
$B \rightarrow IF$ $C \rightarrow M$ $D \rightarrow S$	P Address Mail Server pam		+ 0.5 for B due to Tamil Tr sishest segment gives below containing prices of two mo r accessories. Description Box of two mo Later Price Box of two mo Box of two mo Box of two mo Box of two	anslation Error =2 Marks]			
$B \rightarrow IF$ $C \rightarrow M$ $D \rightarrow S$	P Address Mail Server pam		+ 0.5 for B due to Tamil Tr sidsheet segment gives below containing prices of two me r accessories. Description Price (88.5) Description (84.86) Descrip	anslation Error =2 Marks]			
$B \rightarrow IF$ $C \rightarrow M$ $D \rightarrow S$	P Address Mail Server pam (i) Consider computers	and their	+ 0.5 for B due to Tamil Tr sishest segment gives below containing prices of two more accessories. Description Month A Month 7 Lagory creapater 8.450 7200 Now 1200 1256 Way 1200 1256 Total Atold Total Enforting delivery Cont. 85080 29600	ranslation Error =2 Marks] odels of laptop			
$B \rightarrow IF$ $C \rightarrow M$ $D \rightarrow S$	P Address Mail Server parm (i) Consider computers	and their	+ 0.5 for B due to Tamil Tr sistence segment gives below containing prices of two mo r accessories. Description Pole 98.3 Description Model A House R Lagery creaputer 84.56 7808 Eng 1700 1756 Makes device 455 308 Total Englishing Count 86.889 296.00	ranslation Error =2 Marks] odels of laptop			
$B \rightarrow IF$ $C \rightarrow M$ $D \rightarrow S$	P Address Mail Server parm (i) Consider computers The defivery (ii) Wrise dow	ery cost in Cost" are for the for	+ 0.5 for B due to Tamil Tr sishest segment given below containing prices of two more accessories. Description Manual A Month A Mont	ranslation Error =2 Marks] odels of laptop			
$B \rightarrow IF$ $C \rightarrow M$ $D \rightarrow S$	P Address Mail Server parm (i) Consider computers The defivery (ii) Wrise dow	ery cost in Cost are for the form of -form	+ 0.5 for B due to Tamil Tr sishest segment given below containing prices of two more accessories. Description Manual A Books Packs Logary creaquest Saks 9853 Logary creaquest Saks 9853 Manual description A Sakso 9853 Manual description Sakso 9853 Total Sak	ranslation Error =2 Marks] odels of laptop			
B→ IF C→ M D→ S	P Address Mail Server parn (i) Consider computers The defive Delivery (ii) Write down in the for =sum(B3:B5)	ery cost in Cost are for the form of -form	+ 0.5 for B due to Tamil Tr sishest segment given below containing prices of two more accessories. Description Manda A Mount P Lagary creaquest 6a.863 75056 When 1995 17596 Manda Greece 1995 17596 Manda Greece 1995 17596 Manda Greece 1995 17596 Total Supplementary Charge 1995 17596 Total Supplement 1995 17596 Total Supplement 1995 17596 Total Supplement 1995 17596 Tactivary Charge 1995 17596 Tactivary Charge 1995 17596 Total Supplement 1995 175	ranslation Error =2 Marks] odels of laptop			
$B \rightarrow IF$ $C \rightarrow M$ $D \rightarrow S$	P Address fail Server pam (i) Consider computers The defiver (ii) Wrise down in the for	ery cost in Cost are for the form of -form	+ 0.5 for B due to Tamil Tr sishest segment given below containing prices of two more accessories. Description Manda A Mostal R Lagery creaquest 6a.863 78556 West 1995 1756 West 1995 1	anslation Error =2 Marks] idels of laptop Total including at for Model A			

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ICT විෂයට අදාළ සියලූම ඉගෙනුම් උපකාරක එකම තැනකින්

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පාඩම්වල වලට අදාළ සටහන්

පසුගිය විතාග පුශ්න පතු පෙරහුරු හා වාර විභාග පුශ්න පතු

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