



**ஈ.பொ.க.(ச.பெள) வினாக்கள் - 2016**  
க.பொ.த (உயர் தர)ப் பரீட்சை - 2016

வினாக்கள் } 20 வினாக்கள் } நொற்குறு அது ஈன்கிவெடன தாக்ஈன்கள்

வெறு ஈதே சரிசரி/புள்ளி வழங்கும் திட்டம் - I சறு/பத்திரம் I

சறு ஈன்கள் வினா இல.	சிறு ஈன்கள் விடை இல.	சறு ஈன்கள் வினா இல.	சிறு ஈன்கள் விடை இல.	சறு ஈன்கள் வினா இல.	சிறு ஈன்கள் விடை இல.	சறு ஈன்கள் வினா இல.	சிறு ஈன்கள் விடை இல.	சறு ஈன்கள் வினா இல.	சிறு ஈன்கள் விடை இல.
01.	5	11.	2	21.	3	31.	2	41.	5
02.	3	12.	3	22.	2	32.	3	42.	4
03.	2	13.	4	23.	5	33.	1	43.	2
04.	5	14.	1	24.	2	34.	5	44.	4
05.	4	15.	1	25.	2	35.	4	45.	3
06.	3	16.	2	26.	4	36.	1	46.	2
07.	3	17.	1	27.	2	37.	1	47.	4
08.	2	18.	3	28.	1,4	38.	4	48.	1,2
09.	2	19.	4	29.	4	39.	3	49.	2
10.	2	20.	3	30.	2	40.	4	50.	4

வினாக்கள் சறு ஈன்கள் வினாக்கள் அறிவுறுத்தல் }

சிறு சிறு ஈன்கள் ஒரு சரியான விடைக்கு

வெறு

02

வெறு 50 புள்ளி வீதம்

வெறு வெறு மொத்தப் புள்ளிகள்

2x50 = 100

# Information and Communication Technology(20 E)

## Part II A

2016

Q.No	Model Answer	Marks	
1 (a)	(i) When <u>clicked on 'Cover Page'</u> , the image named <u>'coverPage.jpg'</u> is <u>displayed/opened</u> on a <u>new tab/window</u> .	1	
	(ii) When <u>clicked on 'Content'</u> the document <u>'content.html'</u> is <u>displayed/open</u> on the <u>same window/tab</u> (overwriting the content ).	1	
	(iii) [ <u>When clicked on the image 'figures.jpg'</u> ] [the document <u>'figures.html'</u> is <u>displayed/opened</u> on the <u>same window/tab</u> (overwriting the content on that page).]	1 1	
Note : Do not consider the case-sensitivity of the names(Content, Cover Page, coverPage.jpg, content.html, figures.jpg, figures.html)			
1 (b)	External style sheets/External/External CSS  Note : Do not give any marks if more than one mechanism is given	1	
1 (c)	<u>&lt;style type= "text/css"&gt;</u> <u>h2{</u> color: red; text-align: center; <u>}</u>	1 1 1	
	<table border="1"> <tr> <td><u>p{</u> font-family:"Courier New"; font-size: 14px; <u>}</u></td> <td><u>p{font : 14px "Courier New";</u> <u>}</u>  <u>Note : Order is important if both values are given together</u></td> </tr> </table>	<u>p{</u> font-family:"Courier New"; font-size: 14px; <u>}</u>	<u>p{font : 14px "Courier New";</u> <u>}</u>  <u>Note : Order is important if both values are given together</u>
<u>p{</u> font-family:"Courier New"; font-size: 14px; <u>}</u>	<u>p{font : 14px "Courier New";</u> <u>}</u>  <u>Note : Order is important if both values are given together</u>		
<u>&lt;/style&gt;</u>  Note: 1) If the type is given the correct type text/css should be given within quotes(double or single). 2) Single quote is also allowed in places where double quotes are used. 3) All CSS properties and values are case sensitive. <i>not case sensitive</i>			

2 (a)	<p>C2C: I sell my <u>camera online/through internet/website</u> to an <u>African buyer.</u></p> <p>B2C: Paypal like service.</p>	2 1
2 (b)	<p>To secure the payers sensitive data (security) Guarantee [for the delivery] and [the payment to the seller].</p>	1 1 1
2 (c)	<p>Reliability You may not get the item at all not get the item you have ordered get a poor quality item</p> <p>Security Any other person may rob your <u>credit card details.</u></p> <p>Privacy The buyer may use your <u>credit card number</u> to steel money or expose it/personal details to others</p> <p>Note : Any two answers are acceptable.</p> <p>* Any two options</p>	1 1 1 1 1 1
3 (a)	<p>Closed System</p> <p>(1) Inputs (Water) is available within the system</p> <p>(2) Outputs (Oxygen and Hydrogen) release to the system.</p>	2 2 2
3 (b)	<p>(1) Accuracy/Any problem caused by accuracy</p> <p>(2) Efficiency/Any problem caused by efficiency</p>	1 1
3 (c)	<p>Compare : Both are I-P-O systems (Example : Both can process data)</p> <p>Contrast : <u>Human brain is more intelligent than an information system</u> Or any other acceptable reason (examples : Natural vs Artificial; accuracy; reliability; emotional.....)</p> <p>Note: There should be an answer for each class.</p>	1 1

Handwritten notes in the top left corner, including "Date of introduction" and "Security".

Handwritten note: "duplication + ..."

Handwritten notes: "Input", "Output", "Process", "Store".

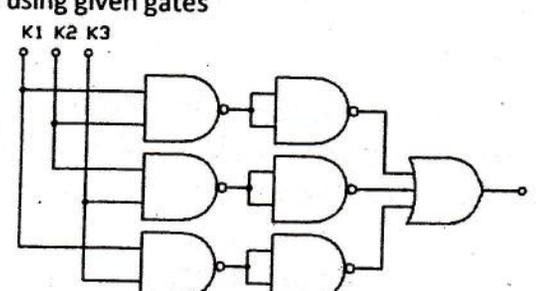
4 (a)	(i) Nothing/no output It has a never-ending(infinite) loop	1 1
	(ii) total = 0 i = 1 while (i <= 10): total = total + i i = i + 1 print(total)  Note : The program should be executable and print 55 as the final value.	2 1
4 (b)	Address size = 16 bit Max number of unique addresses possible = $2^{16}$ Max number of bytes addressable = $2^{16}$ Max usable size of memory = $2^{16} = 2^6 \times 2^{10}$  Note : Correct answer 1 mark Correct computation 4 marks	= 64 KB

ලිපික ප්‍රමාණය = 16 bit  
 අවම වශයෙන් ලිපික ප්‍රමාණය =  $2^{16}$   
 ප්‍රමාණය නිසා  $2^{16}$  ලිපික ප්‍රමාණය =  $2^{16}$   
 භාවිතා කළ හැකි ප්‍රමාණය =  $2^{16} = 2^6 \times 2^{10}$   
 = 64 KB

# Information and Communication Technology(20 E)

## Part II B

2016

Q.No	Model Answer	Mark																																				
1	<p style="text-align: center;">Truth table</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th>K1</th> <th>K2</th> <th>K3</th> <th>L</th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>0</td><td>1</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>1</td><td>0</td><td>1</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>1</td></tr> </tbody> </table> <p><b>Note:</b> <i>entire table correct</i> (1)</p> <p>In the truth table the symbols K1,K2,K3,L should be used or should be defined.</p> <p style="margin-top: 20px;">Boolean expression  <math>L = K1'.K2.K3 + K1.K2'.K3 + K1.K2.K3' + K1.K2.K3</math></p> <p>Simplified Boolean expression  <math>L = K1.K2 + K2.K3 + K3.K1</math></p> <p><b>Note :</b>                  Correct rules 2 marks                  Correct computation 2 marks                  Correct answer 1 mark</p> <p style="margin-top: 20px;">Circuit using given gates</p>  <p style="text-align: right; margin-right: 20px;">(3)</p> <p style="margin-top: 20px;"><b>Note : Connections should be marked by dots or jumpers</b></p> <p><i>K1K2K3 + K1K2K3 + K1K2K3 + K1K2K3</i>  <math>K2K3(K1 + K1) + K1K2K3 + K1K2K3</math>  <math>K2K3 + K1K2K3 + K1K2K3</math>  <math>K3(K2 + K1K2) + K1K2K3</math>  <math>K3(K2 + K1) + K1K2K3</math>  <math>K3K2 + K3K1 + K1K2K3</math>  <math>K3K2 + K3K1 + K1K2K3</math></p>	K1	K2	K3	L	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1	1	1	0	0	0	1	0	1	1	1	1	0	1	1	1	1	1	4 1        2 5
K1	K2	K3	L																																			
0	0	0	0																																			
0	0	1	0																																			
0	1	0	0																																			
0	1	1	1																																			
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1	0	1	1																																			
1	1	0	1																																			
1	1	1	1																																			



4

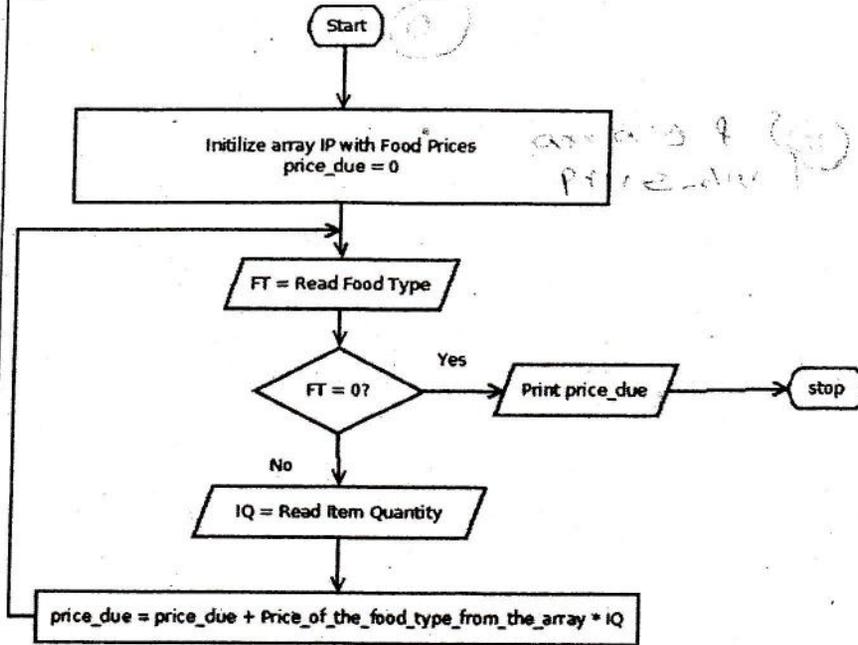
a) Inputs

- i) Input to indicate end of iteration
- ii) Food Type/Price of the food type
- iii) Number of items of the food type

Output

Payment due for the tray.

b)



Start/end : 1 Mark

Correct Initialization : 1 Mark

Correct Inputs : 1 Mark

Correct Loop : 1 Mark

Correct Computation : 1 Marks

Output : 1 Mark

c)

price\_due = 0.0

IP = [10.00,12.00,15.00,10.00,25.00,45.00,50.00,25.00,10.00,12.00]

FT = int(input("Enter food type : "))

while FT !=0:

    IQ = int(input("Enter item Quantity : "))

    price\_due = price\_due + IP[FT-1] \* IQ

    FT = int(input("Enter food type : "))

print(price\_due)

Note :

1 mark : price due initialization

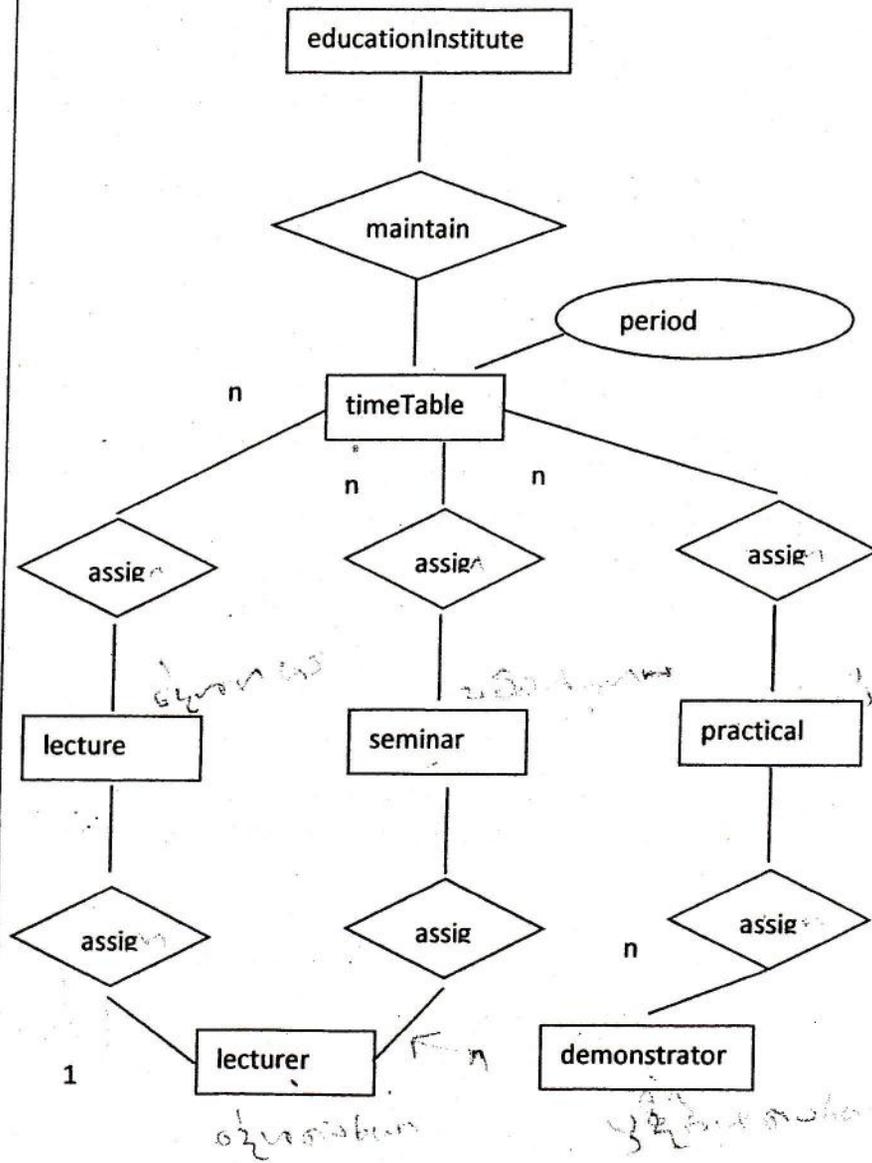
1 mark : array initialization

1 mark : input food type and Quantity

1 mark : correct loop

1 mark: correct computation

5



Note :

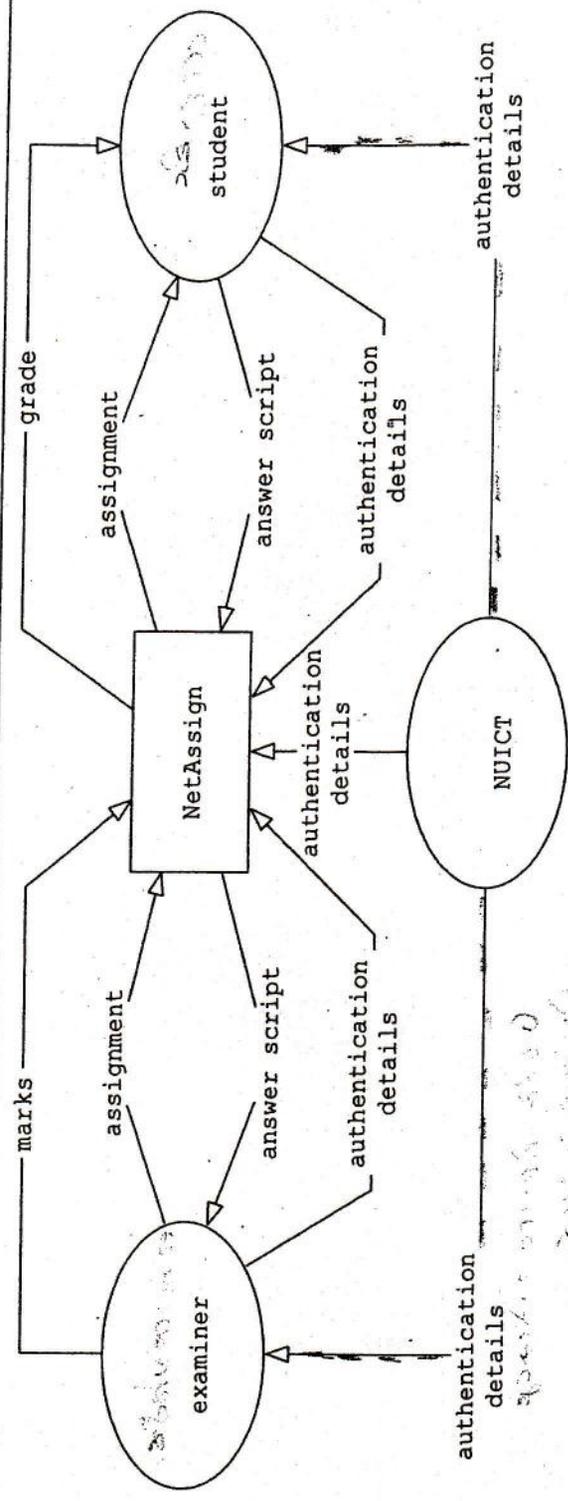
Each entity 1 marks (7 total)

Each relationship with cardinality (if information is available) (7 total)

The attribute of Timetable 1 mark

6

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(1 mark for each component)



Kosala Rajapaksha

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