

**ஈ.பொ.க.(ச.பெ) வினாக்கள் - 2016**

க.பொ.த (உயர் தர)ப் பரீட்சை - 2016

வினாக்கள் } 20 வினாக்கள் } நொருந்நுர் ஸா ஸந்நிவீடந நாக்நீந

ஓந்நு டீதீ சரிசரிச/புள்ளி வழுங்குந் திட்டம் - I சநு/பத்திரம் I

சுந்ந ஈந்ந விநா இல.	சரிசரிச ஈந்ந விநா இல.	சுந்ந ஈந்ந விநா இல.	சரிசரிச ஈந்ந விநா இல.	சுந்ந ஈந்ந விநா இல.	சரிசரிச ஈந்ந விநா இல.	சுந்ந ஈந்ந விநா இல.	சரிசரிச ஈந்ந விநா இல.	சுந்ந ஈந்ந விநா இல.	சரிசரிச ஈந்ந விநா 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  
விசேட அறிவுறுத்தல்

சுந்ந சரிசரிச  
ஓரு சரிசரிச விநாக்கு

ஓந்ந

02

விநாக்கள்  
புள்ளி வீதம்

50

ஓரு ஓந்ந  
ஓந்ந புள்ளிகள்

2×50 = 100

# Information and Communication Technology(20 E)

## Part II A

2016

Q.No	Model Answer	Marks
1 (a)	<p>(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>.</p> <p>(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 ).</p> <p>(iii) [When <u>clicked</u> on the <u>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).]</p> <p>Note : Do not consider the case-sensitivity of the names(Content, Cover Page, coverPage.jpg, content.html, figures.jpg, figures.html)</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>
1 (b)	<p>External style sheets/External/External CSS</p> <p>Note : Do not give any marks if more than one mechanism is given</p>	1
1 (c)	<pre>&lt;style type="text/css"&gt;   h2{     color:red;     text-align:center;   }    p{     font-family:"Courier New";     font-size: 14px;   }</pre> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <pre>p{font : 14px "Courier New"; }</pre> <p><u>Note : Order is important if both values are given together</u></p> </div> <pre>&lt;/style&gt;</pre> <p>Note:</p> <ol style="list-style-type: none"> <li>1) If the type is given the correct type text/css should be given within quotes(double or single).</li> <li>2) Single quote is also allowed in places where double quotes are used.</li> <li>3) All CSS properties and values are case sensitive.</li> </ol>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>



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
2 (b)	<p>To secure the payers sensitive data.(security)</p> <p>Guarantee [for the delivery] and [the payment to the seller].</p>	1
2 (c)	<p>Reliability</p> <p>You may</p> <p>not get the item at all</p> <p>not get the item you have ordered</p> <p>get a poor quality item</p> <p>Security</p> <p>Any other person may rob your <u>credit card details</u>.</p> <p>Privacy</p> <p>The buyer may use your <u>credit card number</u> to steel money or expose it/personal details to others</p> <p>Note :</p> <p>Any two answers are acceptable.</p> <p>* Any two options</p>	1 1 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</p> <p>(Example : Both can process data)</p> <p>Contrast : Human brain is more intelligent than an information system</p> <p>Or any other acceptable reason</p> <p>(examples : Natural vs Artificial; accuracy; reliability; emotional.....)</p> <p>Note: There should be an answer for each class.</p>	1 1

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 වෙනස් කළ හැකි ලිපි ප්‍රමාණය =  $2^{16}$

ප්‍රමාණය නිසා ලිපි ප්‍රමාණය නිසා වෙනස් කළ හැකි ලිපි ප්‍රමාණය =  $2^{16}$

භාවිත කළ හැකි ප්‍රමාණය නිසා වෙනස් කළ හැකි ලිපි ප්‍රමාණය =  $2^{16} = 2^6 \times 2^{10}$

ප්‍රමාණය = 64 KB

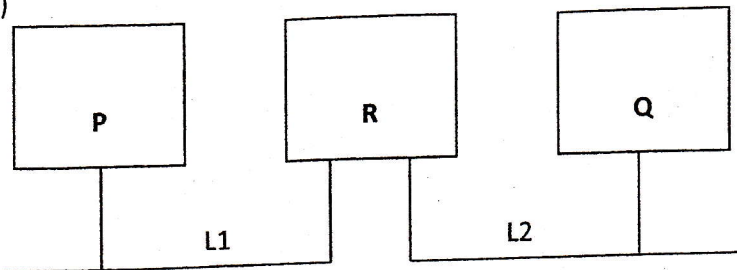


# Information and Communication Technology(20 E)

## Part II B

2016

Q.No	Model Answer	Mark																																				
1	<p>Truth table</p> <table><tr><th>K1</th><th>K2</th><th>K3</th><th>L</th></tr><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></table> <p>Note: <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>Boolean expression</p> $L = K1'.K2.K3 + K1.K2'.K3 + K1.K2.K3' + K1.K2.K3$ <p>Simplified Boolean expression</p> $L = K1.K2 + K2.K3 + K3.K1$ <p>Note :</p> <p>Correct rules 2 marks</p> <p>Correct computation 2 marks</p> <p>Correct answer 1 mark</p> <p>Circuit using given gates</p> <p>Note : <u>Connections should be marked by dots or jumpers</u></p> <p><i>Handwritten notes:</i></p> $K1K2K3 + K1K2K3 + K1K2K3 + K1K2K3$ $K2K3(K1 + K1) + K1K2K3 + K1K2K3 \quad (K + K = 1)$ $K2K3 + K1K2K3 + K1K2K3$ $K3(K2 + K1K2) + K1K2K3 \quad (K + K1K2 = K)$ $K3(K2 + K1) + K1K2K3$ $K3K2 + K3K1 + K1K2K3$	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																																			
1	0	0	0																																			
1	0	1	1																																			
1	1	0	1																																			
1	1	1	1																																			

2	<p>a)</p>  <p><b>Note :</b> Router is in both LANs and L1 and L2 are separate LANs – 3 Marks P and Q are in different LANs L1 and L2 – 2 Marks. This must be marked only when the first part is correct.</p> <p>b) Q. IP address indicates the final destination and it does not specify the intermediate routers/gateways.</p> <p>c) R. The frame F2 is originated at the router R and therefore the source MAC address in frame F2 is the MAC address of R.</p>	5
3	<p>a) B2E An online service provided by the bank to its employees <b>Note : Final mark should be 0,1 or 3</b></p> <p>b)</p> <ul style="list-style-type: none"> <li>Manage their personal activities need to be done during work hours <u>without leaving the workplace</u></li> <li>Get information better and faster, easily</li> </ul> <p>c) Yes/No. <b>Note : If the answer is No justification must be given.</b> It is expected to enhance their <u>efficiency</u> and <u>satisfaction</u> as it enhances the balance between the employees' work and personal life. <b>Note : Justification should support Yes/No claim</b></p> <p>d)</p> <ul style="list-style-type: none"> <li>Content selection and suggestion</li> <li>Content prioritization</li> <li>Alerting</li> </ul>	<p>1</p> <p>2</p> <p>2</p> <p>2</p> <p>1</p> <p>4</p> <p>1</p> <p>1</p> <p>1</p>

4

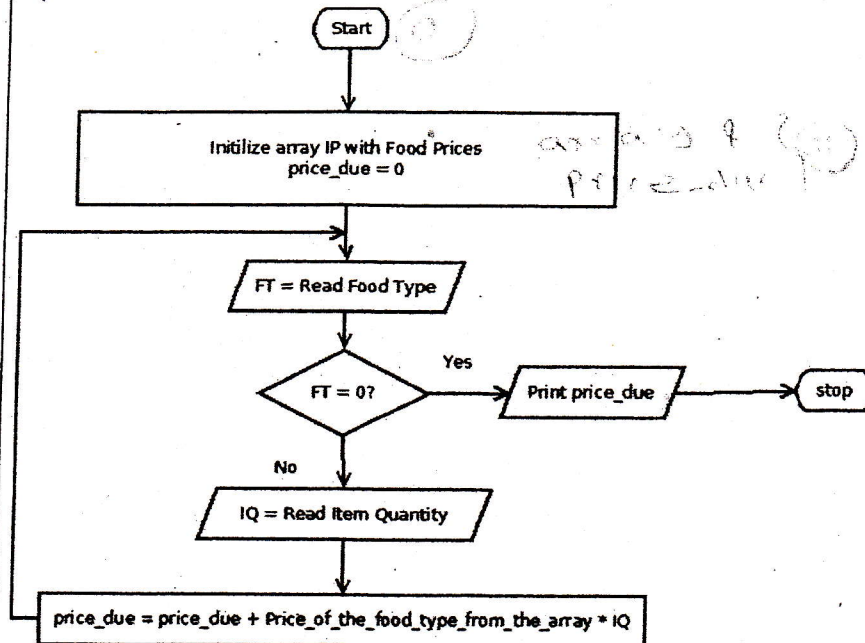
## a) Inputs

- 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

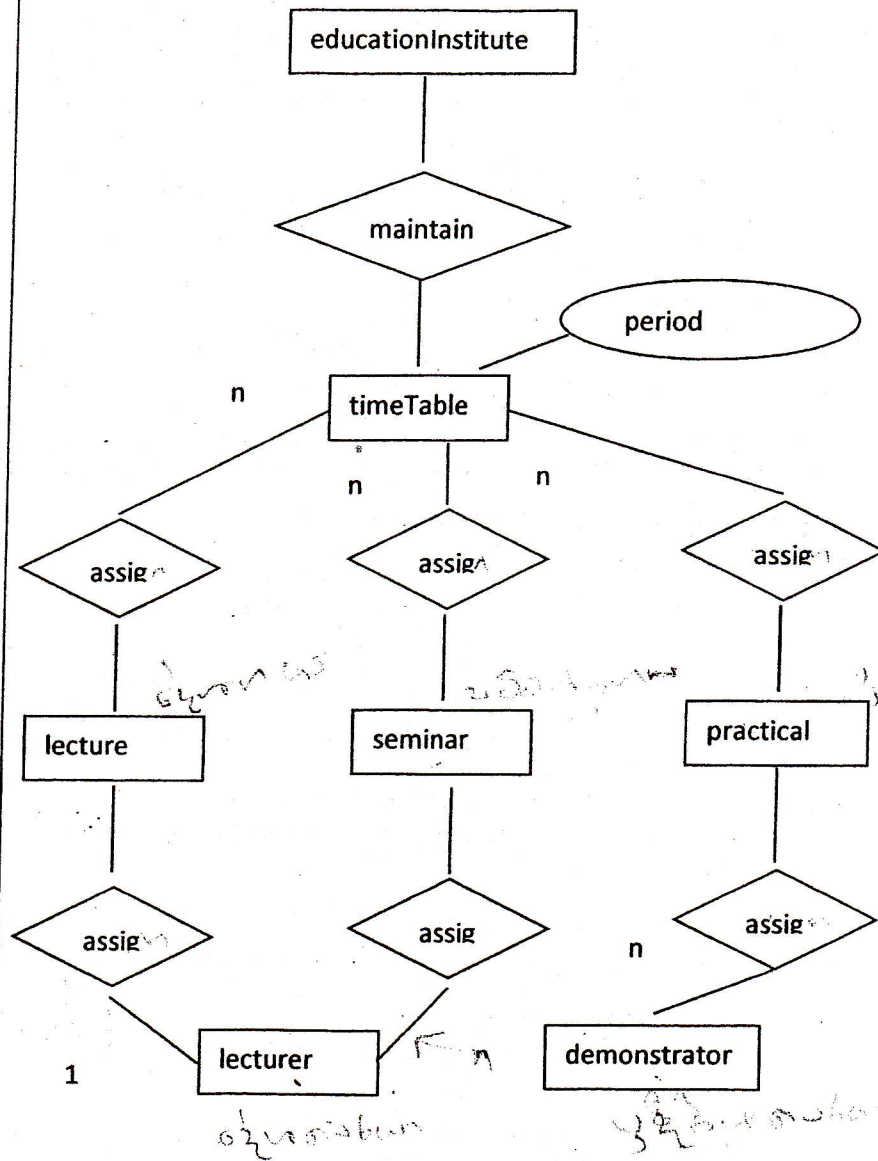
1 mark : input food type and Quantity

1 mark : correct loop

1 mark: correct computation



5



Note :

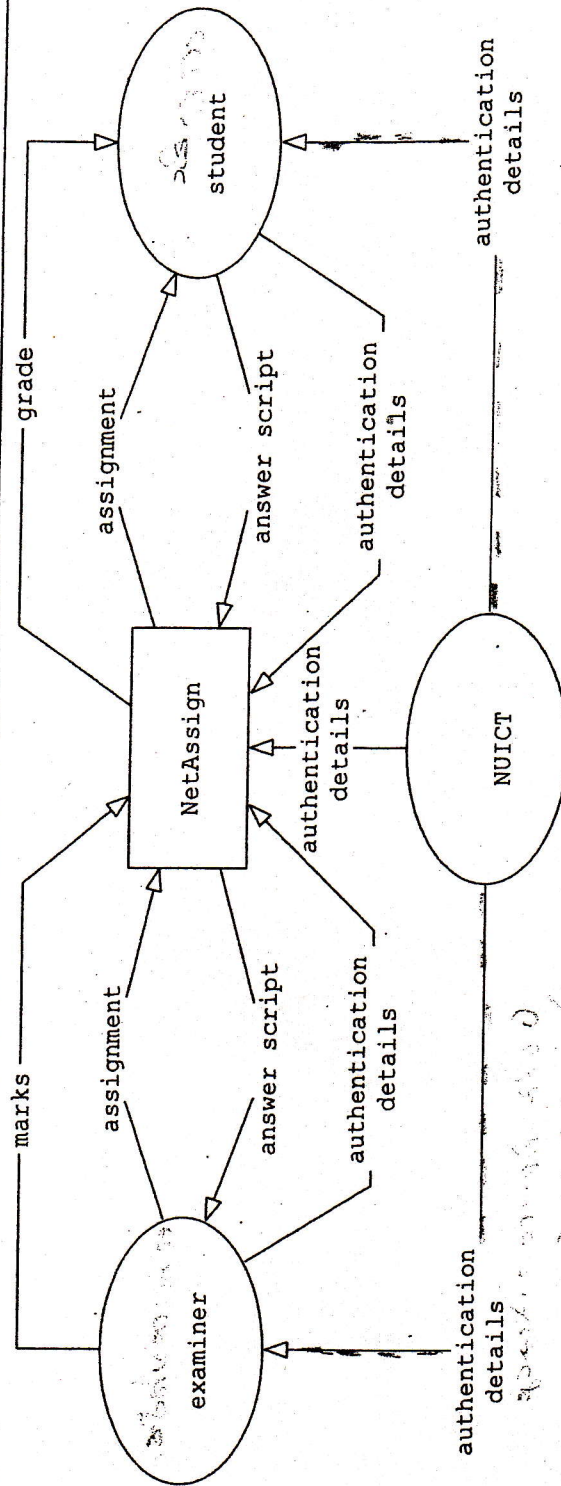
Each entity 1 marks (7 total)

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

The attribute of Timetable 1 mark



6



(1 mark for each component)



Kosala Rajapaksha

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