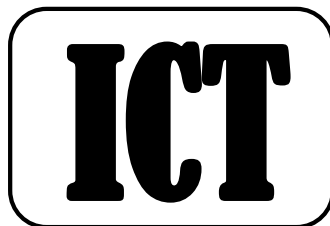


# **O/L ICT Marking Scheme**

**2016 – December**

**Zonal Education Office, Jaffna**

**Model Paper**



**Part – I**

(1)	3	(11)	4	(21)	2	(31)	3
(2)	2	(12)	3	(22)	3	(32)	2
(3)	1	(13)	2	(23)	4	(33)	4
(4)	3	(14)	4	(24)	4	(34)	3
(5)	1	(15)	3	(25)	4	(35)	4
(6)	4	(16)	1	(26)	4	(36)	3
(7)	2	(17)	4	(27)	4	(37)	1
(8)	3	(18)	3	(28)	4	(38)	4
(9)	1	(19)	2	(29)	3	(39)	4
(10)	3	(20)	1	(30)	3	(40)	4

**Part – II**

Question No.	Suggested Answers	Marks
<b>1.</b>		
(i)	${}^6C_{16}$ $16 \overline{)108}$ 6-12 6-C	<b>2 marks (1+1)</b>
(ii)	Star, bus, tree, mesh, ring	<b>2 marks (1x2)</b>
(iii)	A – br    B – p    C – a    D – hl	<b>2 marks (0.5x4)</b>
(iv)	A – Text tool: create/edit text layers. B – Pencil tool: hard edge painting using a brush. C – Eraser tool: Erase to background or transparency using a brush. D – Clone tool: selectively copy from an image or pattern using a brush.	<b>2 marks (0.5x4)</b>
(v)	A – Joomla, B – 123.5.4.10, C – DNS server, D – Mozilla thunderbird	<b>2 marks (0.5x4)</b>
(vi)	(a) True    (b) True    (c) False    (d) True	<b>2 marks (0.5x4)</b>

<b>(vii)</b>	A – 10, B – Num, C – Num , D – Sum	<b>2 marks (0.5x4)</b>															
<b>(viii)</b>	<ul style="list-style-type: none"> <li>- Can check the availability of medical expert prior.</li> <li>- No time waste by waiting for medical expert/consultant.</li> </ul>	<b>2 marks (1x2)</b>															
<b>(ix)</b>	24/7 Service, Cost effective, File attachment facility such as image, video, etc., Quick delivery, Notifications whether sent or not, Can send multiple copies simultaneously.	<b>2 marks (1x2)</b>															
<b>(x)</b>	<p>(i)</p> <table border="1" data-bbox="341 792 531 1032"> <thead> <tr> <th>I</th> <th>O</th> <th>X</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>1</td> <td>0</td> <td>1</td> </tr> <tr> <td>1</td> <td>1</td> <td>1</td> </tr> </tbody> </table> <p>(ii) OR gate</p>	I	O	X	0	0	0	0	1	1	1	0	1	1	1	1	<b>2 marks (1+1)</b>
I	O	X															
0	0	0															
0	1	1															
1	0	1															
1	1	1															
<b>2.</b>																	
<b>(i)</b>	= SUM(B5:F5)	<b>2.5 marks</b>															
<b>(ii)</b>	= MAX(B5:F5)	<b>2.5 marks</b>															
<b>(iii)</b>	= F7-F10	<b>2.5 marks</b>															
<b>(iv)</b>	Bar chart, Column chart, Line chart, etc.	<b>2.5 marks</b>															
<b>3.</b>																	
<b>(i)</b>	<p>Primary key is a <b>field or a set of fields</b> that is used to <b>uniquely identify records of a table</b> in a relation database.</p> <p>Student table – AdmissionNumber</p> <p>House table - HouseID</p>	<b>3 marks (2+1)</b>															
<b>(ii)</b>	<p>Foreign key is a <b>field or a set of fields</b> of a table that <b>values are the same in another table's primary key values</b> in a relation database.</p> <p>Student table – HouseID</p>	<b>3 marks (2+1)</b>															

(iii)	One-to-many relationship	1 marks
(iv)	AdmissionNumber – Text/String StudentName – Text/String HouseId – Text/String	3 marks (1x3)
4.		
(i)	Back pain, Wrist pain, Shoulder pain, CTS, DVS, Eyestrain, Finger pain, Mental depression.	3 marks (1x3)
(ii)	<ul style="list-style-type: none"> <li>- Keeping eyes 24-30 cm away from computer monitor.</li> <li>- Using ergonomically designed equipment and devices such as table, chair, mouse, and keyboard, etc.</li> <li>- Using ‘foot rest’ under foot.</li> <li>- Sitting on chair in correct posture.</li> <li>- Keeping suitable height between chair and table.</li> <li>- Taking rest frequently.</li> <li>- Doing simple stretches and exercises frequently.</li> <li>- Keeping proper light in the room.</li> <li>- Changing of Focal length of eyes by viewing various points.</li> </ul>	3 marks (1x3)
(iii)	Telemedicine is the <b>use of telecommunication and information technologies</b> in order to provide <b>clinical health care at a distance</b> .	2 marks or 0
(iv)	<ul style="list-style-type: none"> <li>- Different legal territory</li> <li>- Cannot take testing on patients directly</li> <li>- Necessary of prior Internet connection</li> </ul>	2 marks (1x2)
5.		
(i)	<ul style="list-style-type: none"> <li>(a) Coding</li> <li>(b) System maintenance</li> <li>(c) System testing</li> <li>(d) System analysis</li> <li>(e) System design</li> <li>(f) Problem definition / System study</li> </ul>	3 marks (6x0.5)

<b>(ii)</b>	Legal feasibility, Operational feasibility, Technical feasibility, Economic feasibility, Socio-cultural feasibility, Schedule feasibility.	<b>2 marks (1x2)</b>
<b>(iii)</b>	User Acceptance testing, Unit testing, Integrated testing, etc.	<b>2 marks (1x2)</b>
<b>(iv)</b>	Domain name – ugc.ac.lk, Protocol – http, Service – www	<b>3 marks (1x3)</b>

**6.**

<b>(i)</b>	<pre> graph TD     Start((7)) --&gt; 1[1]     1 --&gt; 6{6}     6 -- No --&gt; 3{3}     6 -- Yes --&gt; 8{8}     8 -- No --&gt; 4[4]     8 -- Yes --&gt; 2[2]     2 --&gt; 3     3 -- No --&gt; 1     3 -- Yes --&gt; 4     4 --&gt; End((5))   </pre>	<b>7 marks (1x7)</b>
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(ii)	<p><b>Begin</b></p> <p>Read the name of the animals</p> <p><b>If</b> eat only plants <b>Then</b></p> <p style="padding-left: 40px;"><b>Print</b> “Herbivore”</p> <p><b>Else</b></p> <p style="padding-left: 40px;"><b>Print</b> “Carnivore”</p> <p><b>End If</b></p> <p><b>End</b></p>	<b>3 marks</b>
7.		
(i)	<p>(a) B2C</p> <p>(b) வலைக்கடப்பிடம்</p> <p>(c) IP முகவரி</p> <p>(d) Kompozer</p> <p>(e) நிலைத்த வலைக்கடப்பிடம்</p> <p>(f) Audacity</p>	<b>3 marks (1x3)</b>
(ii)	<p>1 – title</p> <p>2 - h1</p> <p>3 – ul</p> <p>4 – img</p> <p>5 - br</p> <p>6 – caption</p> <p>7 – a</p>	<b>7 marks (1x7)</b>

**Marks Distribution:**

Part I – 1 x 40 = 40 marks

Part II – 10x2 + 4x10 = 60 marks

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