

#### **Department of Examinations - Sri Lanka**

# G.C.E. (A/L) Examination - 2017

# **20 - Information and Communication Technology**

# **Marking Scheme**



This has been prepared for the use of marking examiners. Changes would be made according to the views presented at the Chief/Assistant Examiners' meeting.

Amendments to be included.

### 20 - Information and Communication Technology

Distribution of marks

Paper I

Time Duration 02 hours

Number of Questions 50

Total Marks  $50 \times 2 = 100$ 

Paper II

Time Duration 03 hours

Paper A - Structured Questions

Number of Questions 04

 $04 \times 10 = 40$ 

Paper B - Essay Questions

Number of Questions 04

 $04 \times 15 = 60$ 

Paper II Total marks = 40 + 60 = 100

Final marks =  $\frac{pape I + Paper II}{2}$  $= \frac{100 + 100}{2} = 100$ 

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ශී ලංකා විභාග දෙපාර්තමේන්තුව இலங்கைப் பரீட்சைத் திணைக்களம் අ.පො.ස. (උ.පෙළ) විභාගය/ க.பொ.த. (உயர் தர)ப் பரீட்சை - 2017 විෂයය අංකය විෂයය 20 තොරතුරු හා සන්නිවේදන තාකෂණය பாட இலக்கம் பாடம் രකුණු දීමේ පට්පාටිය/புள்ளி வழங்கும் திட்டம் Г පතුය/பத்திரம் I සුශ්න පිළිතුරු පුශ්න පිළිතුරු පිළිතුරු පුශ්න පුශ්න පිළිතුරු පුශ්න පිළිතුරු අංකය අංකය අංකය අංකය අංකය අංකය අංකය අංකය අංකය ජිංකය வினா ഖിത്ഥ வினா ഖിത്ഥ வினா விடை வினா விடை வினா ഖിഞ്ച இல. 01. 05 11. 02 21. 03 31. 04 41. 05 02. 01 12. 04 22. 04 32. 01 42. 02 03. 05 13. All 23. 01 33. 05 43. 04 04. 04 14. 01 24. 03 34. 04 44. 05 05. 03 15. 05 25. 05 35. 05 45. 02 06. 01 16. 04 26. 2 or 4 36. 05 46. 03 07. 05 17. 05 27. 01 37. 03 47. 05 08. All 18. 03 28. 05 38. 03 48. 03 09. 01 19. 04 29. 02 39. 05 49. 05 10. 05 20. 03 30. 02 40. 02 50. 03

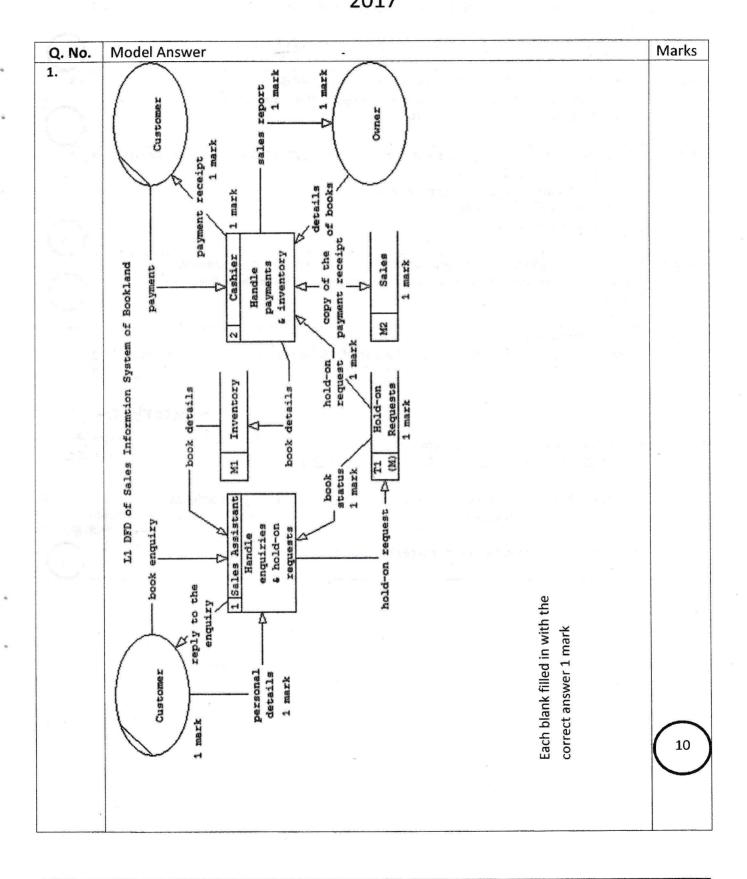
🗘 විශේෂ උපදෙස්/ விசேட அறிவுறுத்தல் :

චක් පිළිතුරකට / ஒரு சரியான விடைக்கு 02 ලකුණු லැගින් / புள்ளி வீதம்

இல் குழை/மொத்தப் புள்ளிகள் 2 × 50 = 100

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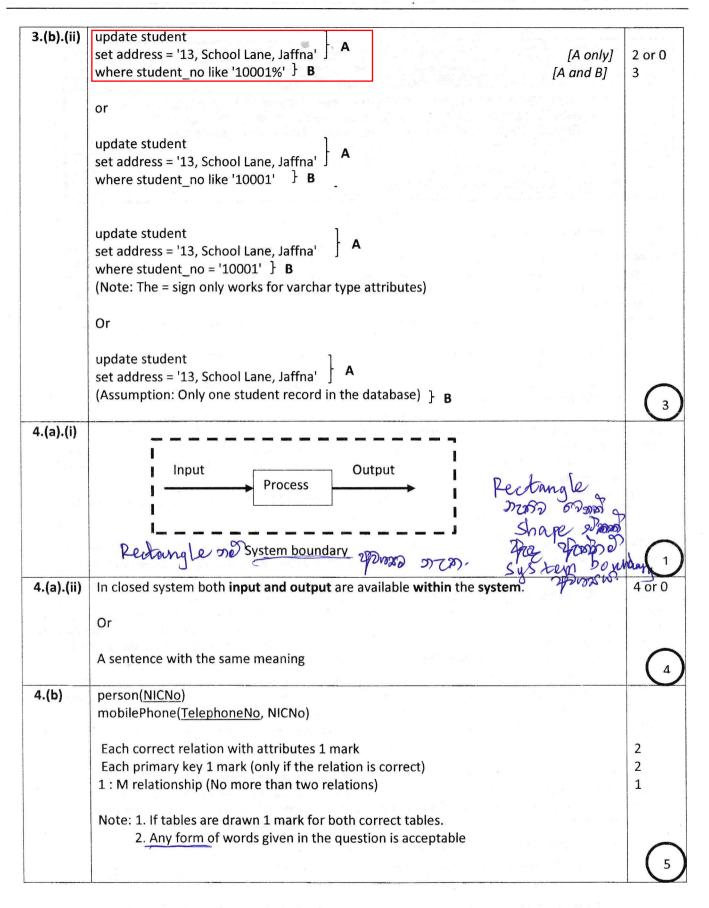
## Information and Communication Technology (20) Paper II Part A 2017



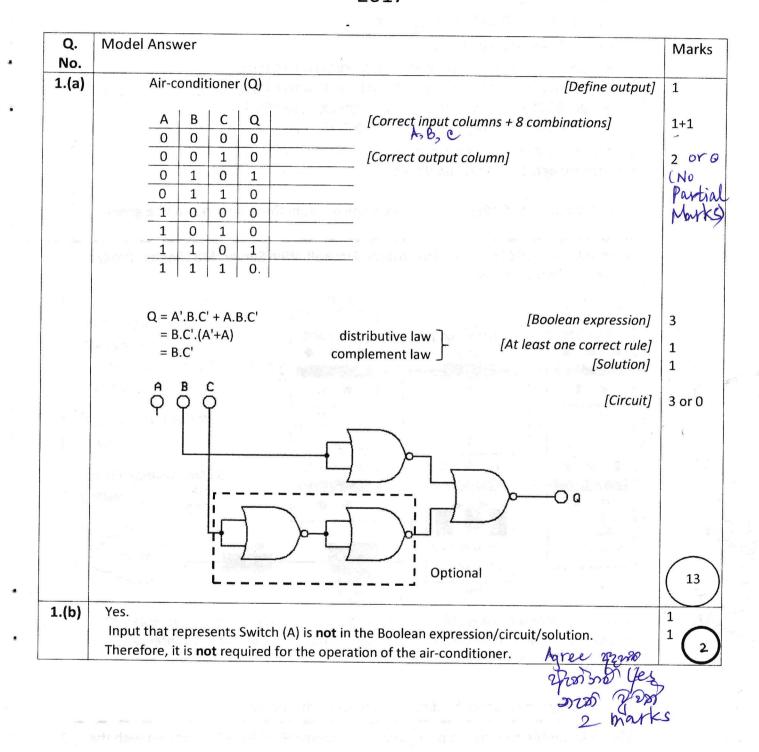
20 - Information and Communication Technology (Marking Scheme) ( G.C.E. (A/L) Examination - 2017 ( Amendments to be included.

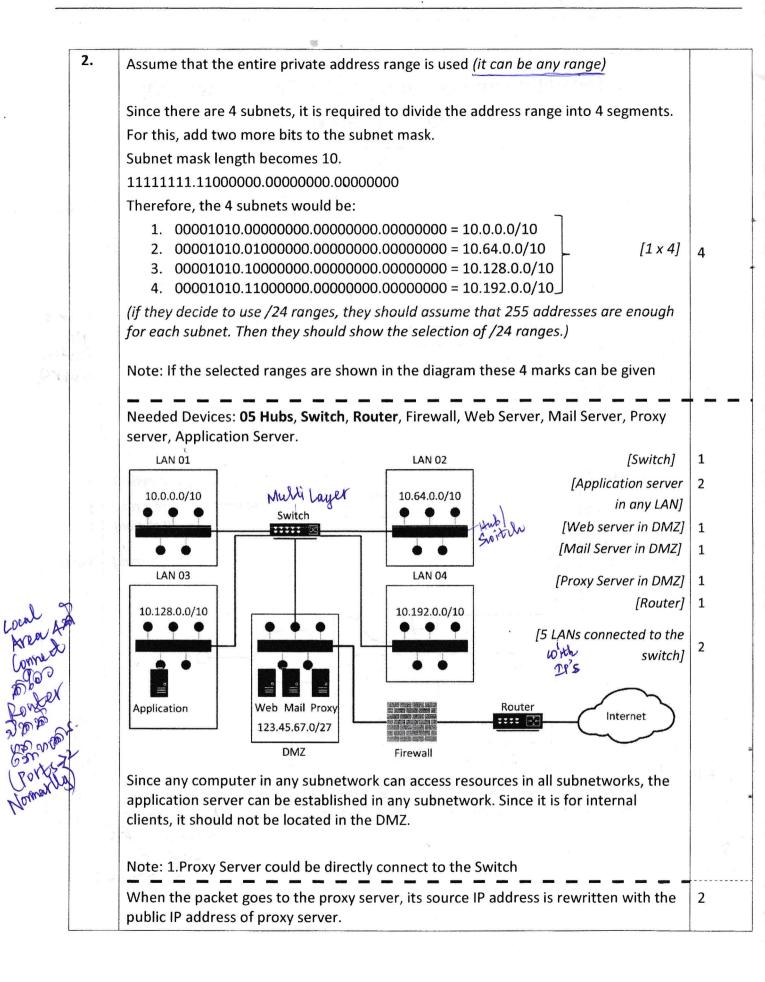
2.(a)	Termination (end) of the process	1 x 3
	<ul> <li>Time out (end of the time silce)</li> </ul>	
	Blocked for input/output operation	3
2.(b)	<ul> <li>Store the current state of the running process in the PCB.</li> </ul>	1
	<ul> <li>Load the state of the process to be continued to the CPU from the PCB.</li> </ul>	2 or 0
	<ul> <li>Transfer the control to the process to be continued.</li> </ul>	1
	Note: Deduct 1 mark from the total if any one or both of <u>PCB</u> is missing)	
2.(c)	Power on self test (POST)/Executing or running BIOS	1 x 3
	<ul> <li>Run the bootstrap program to load the O/S to the main memory.</li> </ul>	
	• Transfer the control to the O/S.	(3)
3.(a).(i)	A transaction between two persons can be classified as B2B if following conditions are satisfied internet 1. It should be an online service/transaction.	1 x 3
	2. The buyer should be a business user	
	3. The seller should be a business user	(3)
3.(a).(ii)	If the seller is replaced by a software agent, then agent represents a business user. Therefore, main proactive behavior is to take <b>actions</b> that <b>makes high (Increase)</b> <b>business profit.</b>	
3.(b).(i)	insert into student A [A only]	1
	values('10001', 'Saman Kumara', '78, Mahara road, Maharagama') [A and B only]	2
	[A, B and C]	3
	ВС	
	or - inserts	ot X
	insert into student (student_no, name, address) -if A incor	
	insert into student (student_no, name, address) values('10001', 'Saman Kumara', '78, Mahara road, Maharagama')	mks
	The order of the values in the values statement should be same as the order of attributes in insert statement.	
	Note: All names should be as in the table definition.	3

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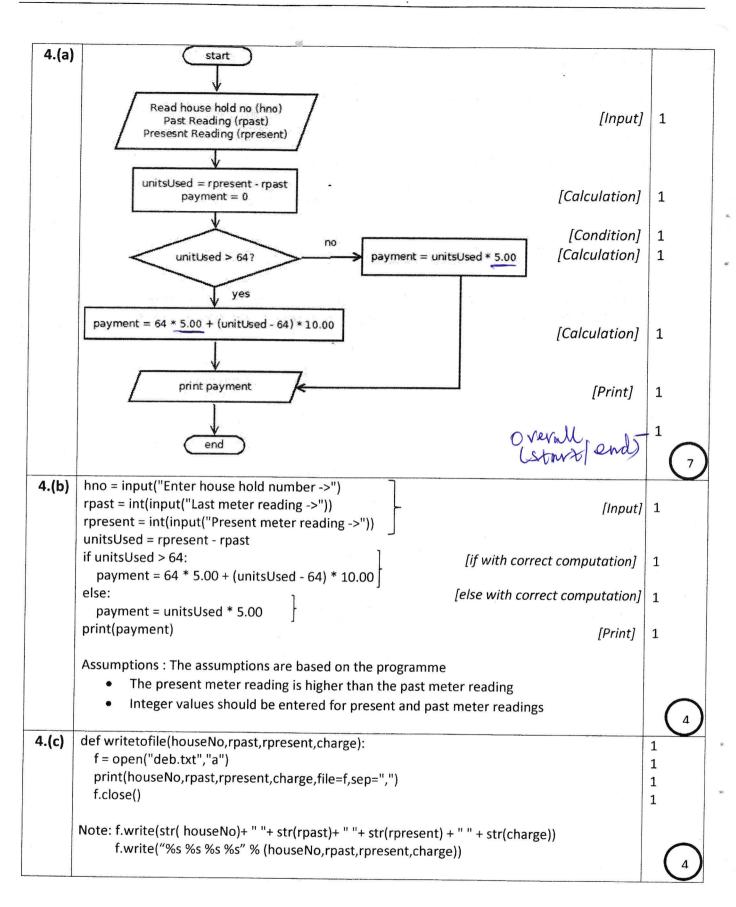
## Information and Communication Technology (20) Paper II Part B 2017

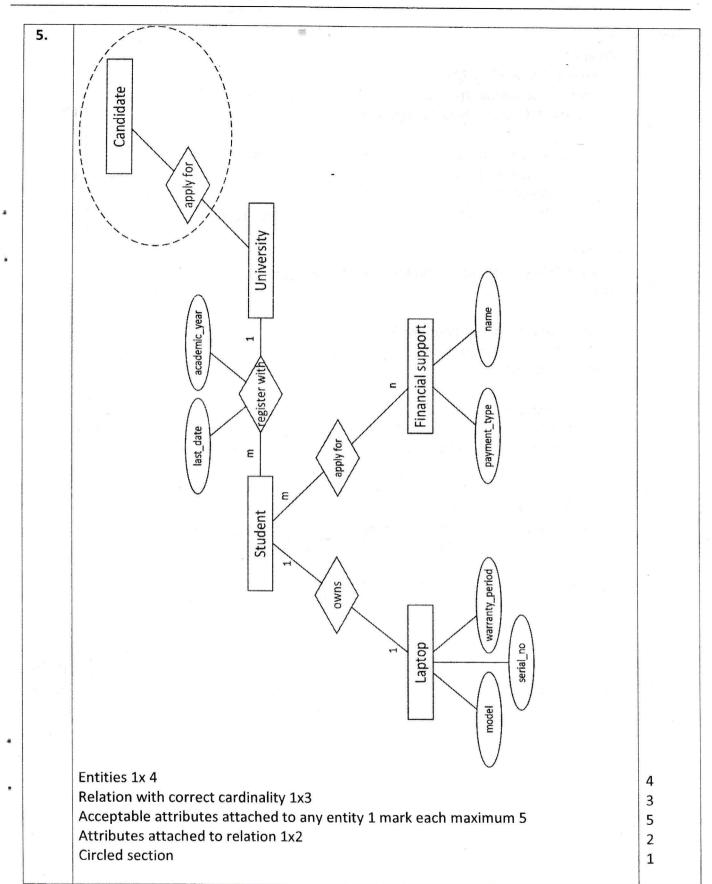




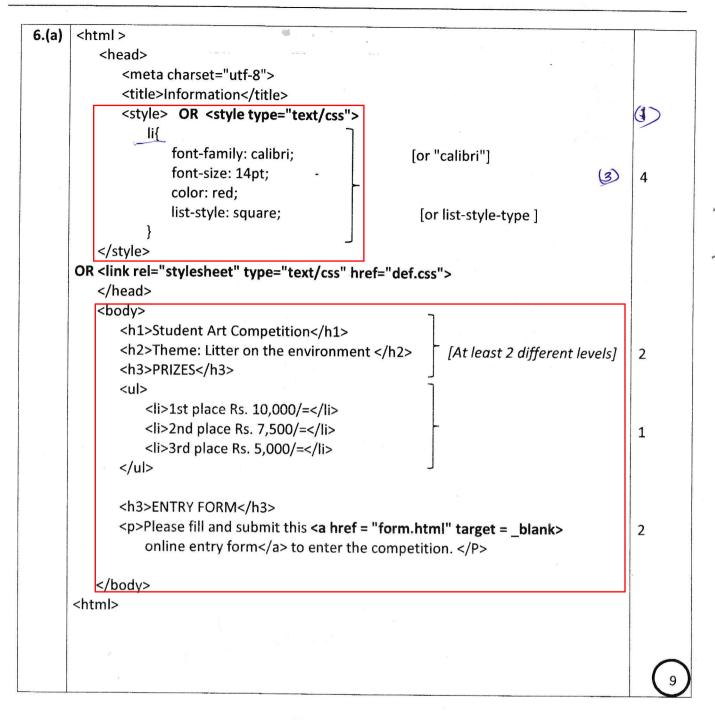
· · · · · · · · · · · · · · · · · · ·	
G2C or Government to Consumer	3
Note: Government to Citizen only 2 marks	3
G2B or G2E,	1
It is a service provided in online by the Government to Business or Employees.	1 (2)
Because it is a service provided by business to government.	4
Therefore it is B2G.	1 (5)
Law: To prepare fine calculations mechanism according to the (criticality of the identified place).	3
Epidemic Control Division: (To develop formula to measure the <i>criticality of the identified place related to dengue breeding</i> ).	2 (5)
	Note: Government to Citizen only 2 marks G2B or G2E, It is a service provided in online by the Government to Business or Employees. Because it is a service provided by business to <b>government</b> . Therefore it is B2G. Law: <b>To prepare fine calculations mechanism</b> according to the ( <i>criticality of the identified place</i> ). Epidemic Control Division: (To develop formula to measure the <i>criticality of the</i>

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6.(b)	<html></html>	
	<head></head>	19 A.V.
	<meta charset="utf-8"/>	о. " <sub>Ж</sub> .
<u>8</u> *	<title>Entry Form</title>	
2 <sup>3</sup>	<body></body>	
1. No.	<pre><h1>Art Competition Online Entry Form 2017</h1></pre>	
	<h3>Theme: Litter on the environment</h3>	
		1
	0	a de la constante de la consta
	Name: <input name="name" type="text"/>	
	Gender:	1
	<input name="sex" type="radio" value="male"/> Male	1
	<input name="sex" type="radio" value="female"/> Female ]	
	Grade Category	
	<select name="ageGroup"></select>	
-	<pre><option value="g1">Grade 1 - 2</option></pre>	
8	<pre><option value="g2">Grade 3 - 6</option></pre>	1
	<pre><option value="g3">Grade 7 - 10</option></pre>	
	<pre><option value="g4">Grade 11 - 13</option></pre>	
	Art media:	
	<input name="media1" type="checkbox" value="Colour"/>	
	Water Colours	
	 br />	
	<input name="media2" type="checkbox" value="Pencils"/>	
	Colour Pencils	1
	   	-
	<input name="media3" type="checkbox" value="Crayon"/> Crayon	
	  br />	
	<pre><input name="media4" type="checkbox" value="Chalk"/> Chalk</pre>	
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	<input type="reset" value="Clear your Entries"/>	1
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	<input type="submit" value="Submit"/>	L
		6