A/L ICT 2017 (Gr.13)

March - 2017 Examination

Field Work Center (FWC)

ICT



$ICT-A/L\ 2017\ (G.13)-March-2017\ FWC\ Examination-Marking\ Scheme$

Part - I

(1)	5	(11)	1	(21)	4	(31)	3	(41)	3
(2)	2	(12)	4	(22)	5	(32)	5	(42)	1
(3)	5	(13)	1	(23)	5	(33)	5	(43)	2
(4)	5	(14)	5	(24)	3	(34)	5	(44)	5
(5)	4	(15)	3	(25)	5	(35)	1	(45)	2
(6)	3	(16)	1	(26)	5	(36)	1	(46)	3
(7)	2	(17)	5	(27)	1	(37)	4	(47)	2
(8)	1	(18)	1	(28)	5	(38)	5	(48)	3
(9)	1	(19)	5	(29)	2	(39)	5	(49)	5
(10)	4	(20)	3	(30)	4	(40)	5	(50)	4

Part – II A

Note:- * Any other relevant answers.

Question No.	Suggested Answers	
(1) (a)	 Magnetic storage medium: Hard disk, Floppy disk, Zip disk Optical storage medium: CD, DVD, Blu Ray Disc Solid-state storage medium: SSD, Memory cards, Flash drive 	3 marks [1 x 3]
(1) (b)	$+8_{10} = 00001000_{2}$ $-6_{10} = 111111010_{2}$ 00000010_{2} [discard 1]	3 marks [1 for each line]
(1) (c)	Width of an address bus = 32 bits No. of address spaces / No. of addresses = 2^{32} Max. usable size of memory = 2^{32} bytes = 4 GB	4 marks (1 x 4 – 1 for each point)
(2) (a)	 Physical layer – Communication media Application layer – e-mail service Transport layer – TCP, UDP Network layer – Routing, IP 	4 marks [1 x 4]

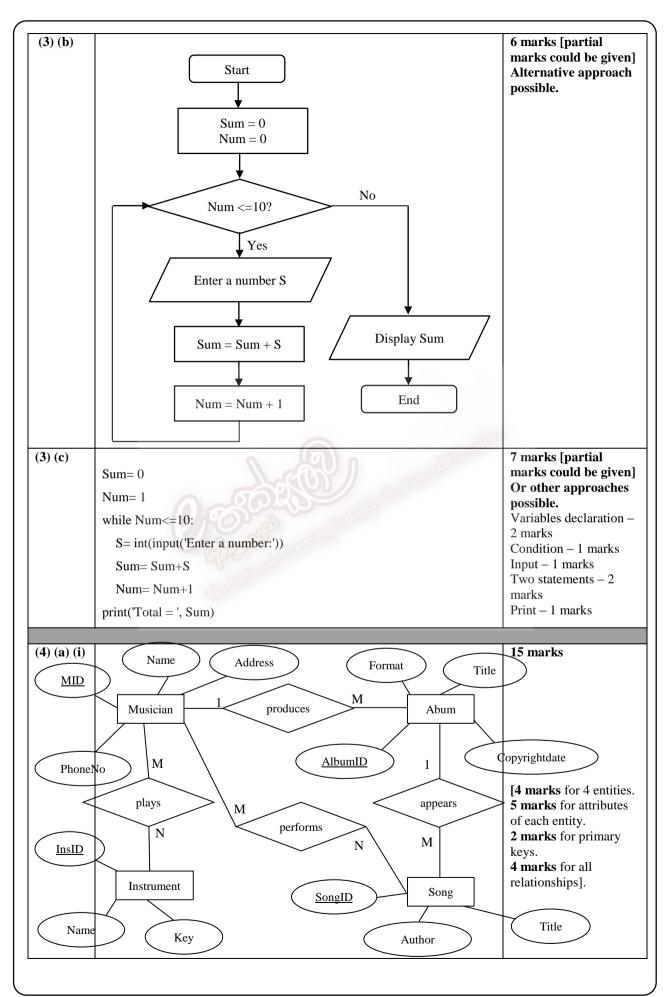
(2) (b)		2 marks [1 x 2]
	TCP - providing <i>connection-oriented</i> service.	
	UDP - providing <i>connectionless</i> service.	
	CD1 providing connections service.	
(2) (c)		4 marks [0.5 x 8]
	<dl></dl>	
	<dt> Singapore </dt>	
	<dd> The land of dreams </dd>	
	<dt> Thailand </dt>	
	<dd> The land of smiles </dd>	
(3) (a)(i)		2 marks [1 x 2]
	h1 { font-type:arial; } - Wrong	
	h1 { font-family:arial; } - Correct	
(3) (a)(ii)		1 marks
	p { text-color : red ; } - Correct	
	was a	S
(3) (b)	(5) a British	3 marks [or 0]
	Output: 1 3 6 10 15	
(3) (c)	Political	4 marks (or 0)
	s=0	, ,
	n=1	
	while n<=10:	
	s = s + n	
	n = n+1	
	print (s)	
	-	
	* Alternative approach possible.	
(4) (a)		2 marks (or 0)
	Select stdid, address from Student	
(4) (b)		
	Select Student.name, Subject.name, marks from Student, Subject, Marks	3 marks (or 0)
	where Student.stdid = Result.stdid and Subject.subid = Result.subid	
(4) (c)		
	Insert into Student values ('S01', 'Perera', 'Galle') OR	2 marks (or 0)
		inai no (ui u)

(4) (d)			
	Create table Student (stdid varchar(10), name varchar(25), address	3 marks (or 0)	
	varchar(50), primary key(stdid)) OR		
	Create table Student (stdid varchar(10) primary key, name varchar(25),		
	address varchar(50))		l

<u>Part –II B</u>

Question No.		
(1) (a)(i)	$\overline{A + B} = \overline{A} + \overline{B}$ $\overline{A \cdot B} = \overline{A} + \overline{B}$	6 marks [no order for rows – reduct 1 mark, no labels – reduct 1 marks]
(1) (a)(ii)		
(2) (4)(2)	A + (B + C) = (A + B) + C	
	A.(B.C) = (A.B).C	
(1) (b)(i)	A B C Output (W) 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 1 1 1 1 1 1	3 marks
(1) (b)(ii)	$\bar{A}BC + A\bar{B}C + AB\bar{C} + ABC$	3 marks [no rules given – reduct 1 marks]
(1)(b)(iii)	$ar{A}BC + Aar{B}C + ABar{C} + ABC$ $ar{A}BC + Aar{B}C + AB(ar{C} + C)$ Distributive Law $ar{A}BC + Aar{B}C + AB$. 1 Inverse Law $ar{A}BC + Aar{B}C + AB$ Identity Law $ar{A}BC + A(ar{B}C + B)$ $ar{A}BC + A(C + B)$ $ar{B}C + B = C + B$ $ar{A}BC + AC + AB$ $C(ar{A}B + A) + AB$ $C(B + A) + AB$ $BC + AC + AB$	3 marks

(1)(b)(iv)	$\begin{array}{c c} A \\ B \\ \hline \\ C \\ \hline \end{array}$	
(2) ()		2 1 14 21
(2) (a)	 Flow control. Connection-oriented communication. Reliability service. Congestion avoidance. Or any other accepted answers. 	3 marks [1 x 3]
(2) (b)	or any contract masses	2 marks
	30 hosts $[2^5-2=30]$	Z HIGI RS
(2) (c)(i)	DHCP server <i>resolves IP addresses dynamically</i> / automatically to the machines.	2 marks (or 0)
(2) (c)(ii)	Proxy server <i>shares the Internet connection</i> among computers/users. OR Proxy server is a server that acts as an <i>intermediary for requests</i> from clients <i>seeking resources</i> from other servers.	2 marks (or 0)
(2) (d)	An agent is a computer system/software that is situated in an environment, and that is capable of autonomous action in this environment on behalf of its user in order to meet its design objectives. • e-Commerce / bidding agents. • Buyer agents / Shopping agents. • Auction agents. • User / personal agents. • Data mining agents. • Monitoring and surveillance agents. • Learning agents. Or any other accepted answers.	6 marks [3+1.5 x 2]
(3) (a)	 Object-oriented programming. Structured programming (Functional / procedural programming). Unstructured programming. 	2 marks



(5) (a)	- tag defines a paragraph. Adds some white space before and after	
	a paragraph.	3 marks [1.5 x 2]
	 - Images are defined with the tag.	
(5) (b)	<hr/> <html></html>	12 marks [partial
(3) (b)	<head></head>	marks given]
	<title> Bird Park - Hambantota </title>	
		h1 - 2 marks
	<body></body>	p – 1 marks
	<h1> Bird Park - Hambantota </h1>	
	 The position of Sri Lanka in the Indian Ocean at the southernmost br>	img – 3 marks
	tip of the Indian subcontinent is of great importance for long tip of the Indian subcontinent is of great importance for long tip of the Indian subcontinent is of great importance for long tip of the Indian subcontinent is of great importance for long tip of the Indian subcontinent is of great importance for long tip of the Indian subcontinent is of great importance for long tip of the Indian subcontinent is of great importance for long tip of the Indian subcontinent is of great importance for long tip of the Indian subcontinent is of great importance for long tip of the Indian subcontinent is of great importance for long tip of the Indian subcontinent is of great importance for long tip of the Indian subcontinent is of great importance for long the Indian subcontinent is of great in g	br – 2 marks for all
	distance migrant shorebirds. Birds Research Centre & Resort, br>	2 1
	Asia's largest Birds Research Centre exhibits over 200 birds species.	a – 2 marks
	 	html structure – 2
	For more information: Bird	marks
	Park	
	NOTE OF THE PROPERTY OF THE PR	
(6)	(a) a lightener	15 marks [1 x 15 –
	Customer order	entity, system, and data
	New customer information Inventory	flows each get 1 mark]
	Customer Dept	
	Item no.of description	
	Back-ordered item	
	Item information	
	Customer billing statement Order	
	processing	
	Shipped order Shipped order Order picking list	
Accounts re	cceivable report	
iccounts re	cervanie report	
	Accounting Order goods	
	(
	Dept Warehouse	

<u>Note</u>: - Teachers are expected to follow this marking scheme strictly in order to guide students for final examination. (In the answers given, key words with **Bold / Italic** must be in the answer scripts).

Part – I
$$2 \times 50 = 100 \text{ marks}$$
 Part – II A $10 \times 4 = 40 \text{ marks}$ **Part – II B** $15 \times 4 = 60 \text{ marks}$ **200 / 2 = 100 marks** *****