

20/10/16

සියලු ම හිමිකම් ඇවිරිණි
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බස්නාහිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව
 மேல் மாகாணக் கல்வித் திணைக்களம்
 Department of Education - Western Province

වර්ෂ අවසාන ඇගයීම
 ஆண்டிறுதி மதிப்பீடு - 2016
 Year End Evaluation

ලිඳිගැටු පටුය
 Marking Scheme

ශ්‍රේණිය தரம் Grade	10	විෂය பாடம் Subject	Information and Communication Technology I,II	පටුය வினாத்தாள் Paper	I, II
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Paper I

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

Paper II

1.

(i)

- a) $Z = X.Y$
- b)

(1 Mark)

X	Y	Z
0	0	0
0	1	0
1	0	0
1	1	1

(1 Mark)

(ii)

- (a) - Q
- (b) - S
- (c) - P
- (d) -R

(1/2 x4= 2 Marks)

(iii)

	Example
Input	Camera of Mobile Phone
Output	Laser Printer, Multimedia Projector
Storage	16 GB USB
Input/output	Touch Screen of Mobile Phone

(1/2 x4= 2 Marks)

(iv) A – Bus Topology
 B – Tree Topology ($\frac{1}{2}$ identify + $\frac{1}{2}$ feature = 2 Marks)

(v)
 A. LAN
 B. WAN
 C. MAN (3 Marks)

(vi)

දශමය	ද්විමය	අෂ්ටමය	ෂඩ් දශමය
47	101111	57 ₈	2F ₁₆
46	101110 ₂	56 ₈	E ₁₆

($\frac{1}{2} \times 4 = 2$ Marks)

(vii) X = $\overline{A\overline{B}}$ (1/2 Mark)

Y = $\overline{A}B$ (1/2 Mark)

C = $AB + \overline{A}B$ (1 Mark)

(viii)

① (R)
② (S)
③ (P)
④ (Q)

($\frac{1}{2} \times 4 = 2$ Marks)

(ix) Clip art, Shapes, Pictures or any suitable answer. ($\frac{1}{2} \times 2 = 1$ Mark)

(x)
 A. MS DOS B Windows Server
 C. Mac OS D. OS of ATM (1/2 x 4 = 2 Marks)

2.

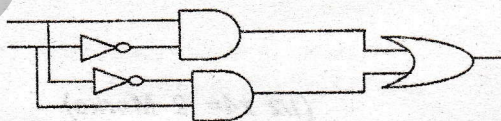
i. AF₁₆ (2 Marks)

ii.

කේත ක්‍රමය	හාච්ච වන බිටු ගණන
ASCII	7
BCD	4
EBCDIC	8
Unicode	16

($\frac{1}{2} \times 4 = 2$ Marks)

iii. $A.\overline{B} + \overline{A}.B.C$

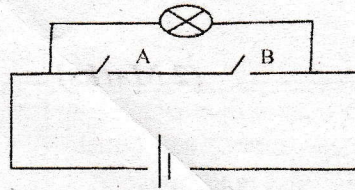


(2 Marks)

A	B	\overline{A}	\overline{B}	$A\overline{B}$	$\overline{A}B$	$A\overline{B} + \overline{A}B$
0	0	1	1	0	0	0
0	1	1	0	0	1	1
1	0	0	1	1	0	1
1	1	0	0	0	0	0

(2 Marks)

iv.



(2 Marks)

3.

(i)

(a) =Sum(B5:B9) (1 Mark)

(b) =Max(C5:B9) (1 Mark)

(c) =C12/C11*100 (2 Marks)

(d) Bar Chart/Column Chart(No marks for Pie chart & Line chart) (1 Mark)

(ii) 1 – R

2 – S

3 – T

4 – P

5 – Q

(1 x 5= 5 Marks)

4.

(a)

(i)	15
(ii)	14
(iii)	4
(iv)	9
(v)	6
(vi)	3

(3 Marks)

(b)

(i) Ctrl+N -Get a new document

(ii) Ctrl+O - Open a document

(iii) Ctrl+X - Cut letters / objects

(iv) Ctrl+HOME - Get the cursor to the opening of the document

(2 Marks)

(c)

(i) Libre Office Impress
Open Office.orgImpress

(2 Marks)

(ii) **Number of lines**–number of lines per slide are 6-9.

Font size -keep the font size at 32 points or more

Correct use of grammar and language

Inserting images, drawings, tables or graphs

Use of colours –We can use dark colours, bold letters or use of different fonts to emphasize certain points. The use of dark red colour throughout the slide is not a good practice since it may be uncomfortable for the viewers' eyes

Animation and videos-It is ideal to use one animation or video in each slide

Pay attention on target group

(3 Marks)

5.

- i. Item Table – Item ID
Supply Table – SuppID

(2 Marks)

ii.

- (a) Item Table
(b) A003 16GB Flash drive.

(2x2=4 marks)

iii.

- (a) Item Table, Supply Table, Purchase Table
(b) A005 Optical Mouse, S05 A to Z IT Parts, 02/08/2016 S05 A005 40

(2 Marks)

- iv. Data Encryption
Password (database)

(2 Marks)

6.

(i)

A - S
B - P
C - Q
D - R

($\frac{1}{2} \times 4 = 2$ Marks)

(ii)

A	<input checked="" type="checkbox"/>
B	<input checked="" type="checkbox"/>
C	<input checked="" type="checkbox"/>
D	<input checked="" type="checkbox"/>
E	<input checked="" type="checkbox"/>

($\frac{1}{2} \times 5 = 2 \frac{1}{2}$ Marks)

- (ii) a. Primary - Random Access Memory Read Only Memory
Secondary - Hard Disk/Floppy Disk/Magnetic Tape CD/DVD/Blue-ray USB flash drive

($\frac{1}{2} \times 2 = 1$ Mark)

b.

- i. Magnetic media - Hard Disk/Floppy Disk/Magnetic Tape
ii. Optical media - CD/DVD/Blue-ray
iii. Solid state - USB flash drive

($\frac{1}{2} \times 3 = 1 \frac{1}{2}$ Marks)

c. RAM

(1 Mark)

d.

- It's easy to use
Portability
Ability to read and write data fast
Relatively storage capacity is high chance
Possibility of physical damage is comparatively less

(2 Marks)

7.

- 1) Sort description (1 Mark)
Two Examples ($\frac{1}{2} \times 2 = 1$ Mark)

2)

- (a) (2 Marks)
(b) (2 Marks)

3) ($\frac{1}{2} \times 4 = 2$ Marks)

4)

- (a) ($\frac{1}{2} \times 2 = 1$ Mark)
(b) ($\frac{1}{2} \times 2 = 1$ Mark)