

80 – Information & Communication Technology

Instructions to Mark Question Paper I

1. Get the template prepared for marking certified by the chief examiner.
2. Check the answer script first, and cross out all options of the question of which either more than one option is marked or not marked.
3. Mark either correct or incorrect on the question number itself.
4. DO NOT indicate correct or incorrect (✓, x) marks on the candidate's answer.
5. Cut a window over the question numbers' column on the template, and mark correct / incorrect on the same column.
6. Be careful about the alignment of the template and the answer script during marking.
7. Count down the correct answers along each column and indicate under the same and then get the grand total of the correct answers (xx/40) and write it in the cage given in right.
8. Be careful when adding up marks and writing it down in the second question paper.
9. Accept when the candidate has marked the answers by underlining the options or marked in the question paper itself without using the answer script.

Paper I - Marking Scheme

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

Give 1 Mark for each correct answer. Total 40 marks (1x40)

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Instructions to Mark Question Paper II

1. Obtain a comprehensive understanding about the skills to be assessed before marking is started.
2. It is necessary to identify the level of competency that the candidate should exhibit regarding each skill during the discussion and impression marking. What needs to be exhibited is the level of achievement the candidate should reach at the end of year 11.
3. There should be a consistency among examiners when giving marks. Drastic variations of the marks given to the same answer by several examiners should be avoided. It is recommended to follow the following with regard to that.
 - (i) Strictly follow the marking scheme given.
 - (ii) Understand and follow the instructions of chief examiner.
 - (iii) Use the guidelines given in the handbook issued by the department of examination.

Summary of Marks Allocation

Q1.

(i)	2 marks	1+1
(ii)	2 marks	
(iii)	2 marks	1+1
(iv)	2 marks	
(v)	2 marks	
(vi)	2 marks	1+1
(vii)	2 marks	
(viii)	2 marks	
(ix)	2 marks	
(x)	2 marks	1+1

[Total 20 marks]

Q2.

(i)	3 marks
(ii)	3 marks
(iii)	2 marks
(iv)	2 marks

[Total 10 marks]

Q3.

(i)	2 marks
(ii)	3 marks
(iii)	3 marks
(iv)	2 marks

[Total 10 marks]

Q4.

(i)	3 marks
(ii)	4 marks
(iii)	3 marks

[Total 10 marks]

Q5.

(i)	3 marks
(ii)	3 marks
(iii)	4 marks

[Total 10 marks]

Q6.

(i)	3 marks	Answer 3 parts out of 4. Give 1 mark for good writing and presentation skills. (3+3+3+1=10)
(ii)	3 marks	
(iii)	3 marks	
(iv)	3 marks	

[Total 10 marks]

Q1. [20 marks]

(i) (a) CAL (e) e-learning [1 + 1 = 2 marks]
 (b) World Wide Web (internet)

(ii) Password [2 marks]

(iii) (a) Not p-p (Security/Confidentiality issues) [1 + 1 = 2 marks]
 (b) Does not allow audio / video data

(iv) 37 [2 marks]

(v) Speakers contain strong magnets which effect magnetic/electric fields of CRT monitors. [2 marks]

(vi) (a) Low access time (fast access), capacity, [1 + 1 = 2 marks]
 (b) Compact (extra software space, less power consumption)

(vii) To maintain the temperature within the safety limits by removing extra heat. [2 marks]

(viii) Rotate right by 90° [2 marks]

(ix) Explain and describe various parts / modules / steps in a program. [2 marks]

(x) (a) Samples can be analyzed quickly and accurately.
 (b) Decisions can be made quickly. [1 + 1 = 2 marks]
 (c) Save time, (d) systematic output

Q2. [10 marks]

(i) (a) Preparing reports of the meetings
 (b) Using e-mail, intranet [3 marks]
 (c) Sending SMS, ATM, fax

(ii) (a) E-mail application S/W to communicate with customers and internal staff
 (b) Word Processing S/W to prepare & print reports, tables, letters etc. [3 marks]
 (c) DBMS S/W to maintain useful data of the organization which have to be quickly accessible.
 [E.g. List containing the details of employees] no explanation but 3 application software (2 marks)

(iii) (a) Convenience of communication
 (b) Sharing of resources [2 marks]

(iv) (a) Keeping backups [2 marks]
 (b) Passwords

Q3. [10 marks]

(i) $= D5*3/2$ (1.5) / $D5 + \frac{D5}{2}$ [2 marks]

(ii) $= C5-D\$3$ ~~if no marks to without \$~~ [3 marks]

(iii) $= D5*D\$3 + F5*E5$ ~~$= ((C5 - \$D\$3)*D5) + (E5 * F5)$~~ [3 Marks]

(iv) $= \text{SUM}(G5:G10)$ [2 marks]

Q4. [10 marks]

(i) First three numbers : 1, 3, 6
Last two numbers : 28, 36, 45 *if right* [3 marks]

Series : No marks

(ii) Begin
 X=1
 T=1
 Do While T<50
 Display T
 X=X+1
 T=T+X
 End While
End

(iii) Replace $X = X + 1$ with $X = X + 2$ [4 marks]

$T = X^2$ / $T = XXX$

Any alternative modification is accepted

Q5

i) **Health Issues** [3 marks]

- He is slouched on the chair. Not good for the spine.
- Head / face are too close to the CRT monitor. The user's head / face will be exposed to harmful radiation.
- Environmental pollution due dust, toxic odors due to heating of electronic devices etc.

ii) **Safety Issues** [3 marks]

- The user is in the danger of falling off the small stool which is on wheels.
- Trampling electric wires.
- Possibility of catching fire due to overloading of the multi-plug extension board and short circuits caused by damaging the insulation of wires.

iii) **Eliminating Health Issues** [2 marks]

- Sit up with back straight and shoulders back.
- Keep a distance from the monitors and use a radiation filter.
- Repair damaged window and let fresh air come in. Keep the place clean..

2 marks for 3

Eliminating Safety Issues**[2 marks]**

- a. Use a proper chair.
- b. Get rid of trampling electric wires and rewire the premises with the help of a good electrician.
- c. Distribute the load within safety limits. (May use another multi-plug extension board)

Q6. [10 marks] Each part - 3 marks ($3 \times 3 = 9$) and allocate the remaining 1 mark to good writing and presentation skills.

NOTE: Please read the students' answers carefully since there can be different answers.
The following few points are given as a guide only.

(i) The inclusion of ICT on as a subject in the Advanced Level

[3 marks] – 1 mark for each strong, valid and independent point.

- Opens the door to higher education in ICT and other sectors as well.
- Establishes a national wide standard in ICT.
- Establishes equal opportunities among all Lankan students to learn ICT

(ii) Problems and challenges faced by students while learning ICT in school

[3 marks] – 1 mark for each strong, valid and independent point.

Few points are as follows

- Shortage of teachers with IT knowledge who can enrich the students learning experience with modern technology.
- Many schools do not have Internet facilities.
- Number of computers and other resources are insufficient.

(iii) Exploiting ICT to develop tourism in Sri Lanka.

[3 marks] – 1 mark for each strong, valid and independent point.

- Using the web as a medium of marketing and information
- Improving communication facilities.
- On line reservations / payment methods.

(iv) The advantages of computerizing the process of issuing vehicle licenses.

[3 marks] – 1 mark for each strong, valid and independent point.

- Quicker, secure and reliable than manual methods
- Fraudulent licenses can be easily detected
- Easily be authenticated *මෙයුග්‍රාව විවිධ පොදොනු උග්‍රූලිස්ක්‍රිප්ට් ලිංග්ස්ක්*

-- End of Marking Scheme –