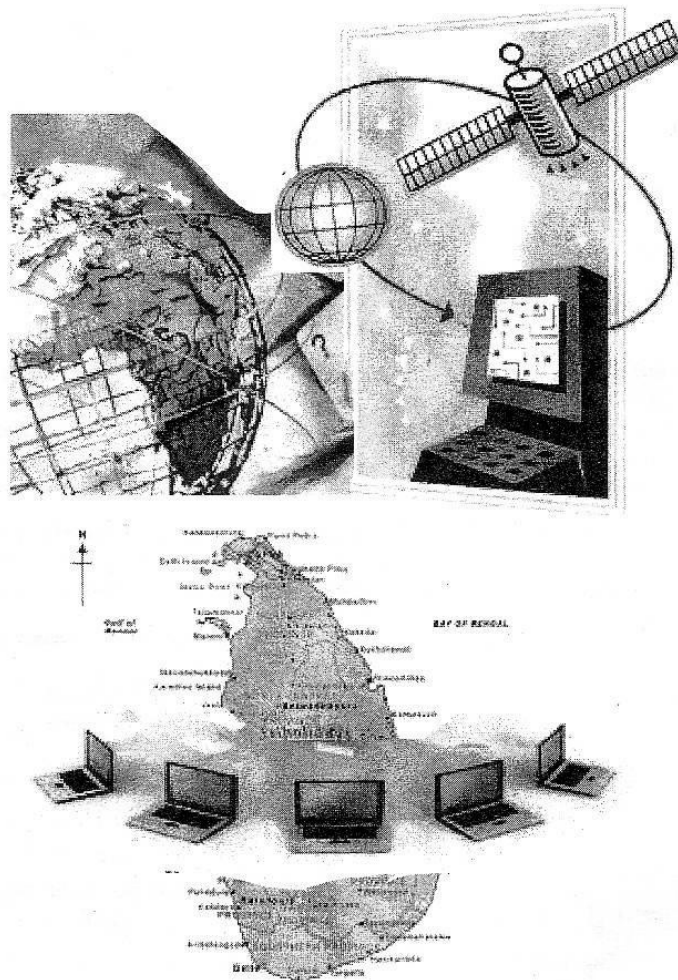


National Evaluation & Testing Service
Department of Examination - Sri Lanka

General Information Technology Marking Scheme 2012



MCQ Answers

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

(a)

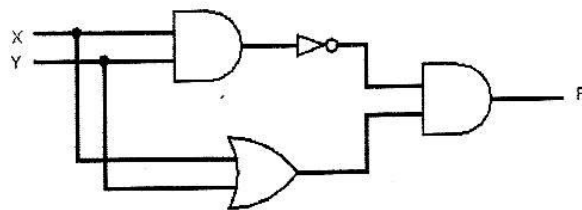
i.

1	2	3	4	5
X	Y	$P = \text{NOT}(X \text{ AND } Y)$	$Q = X \text{ OR } Y$	$R = P \text{ AND } Q$
0	0	1	0	0
0	1	1	1	1
1	0	1	1	1
1	1	0	1	0

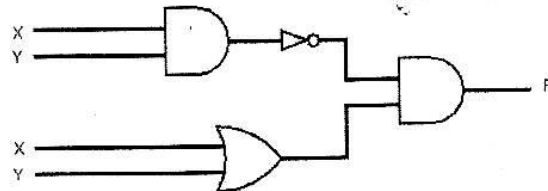
(0.5 x 12 = 6 marks)

(Note: P and Q should be correct for the corresponding row to award marks for R)

ii. Draw the logic circuit



OR



1 mark for each logic gate + connectors drawn correctly from left to right (4 marks)

1 mark for marking inputs X and Y

1 mark for marking output R

(Total 6 marks)

(b)

i. System Software/Operating System

(2 mark)

ii. Functionality of X

Providing an [interface/ interactions] between user and hardware

[Facilitating user to use/controlling/handling/managing] hardware conveniently

Any 1 from the above

(2 marks)

Functionality of Hardware

{Data} Input/ output/ processing/ storage

(2 marks)

- iii. Any application software such as word processing, spreadsheet, presentation, database, graphics, accounting, statistical

OR

Any name of the software such as PowerPoint, Impress, Write, Word, Acrobat Reader, Photoshop, Excel, GIMP, Any other appropriate application software.

Note: **No** marks awarded for programming languages

(2 mark)

(c)

- i. Laptop/Notebook/Palm top/PDA/ Tablet {computer} (Tab)/ Portable computer

(2 mark)

Note: No marks for desktop, etc.

No marks awarded for brand (names/models) e.g iPad 4

No Marks for (1.c ii) if (1.c i) is incorrect.

ii.

- [Portability/light weight]
- [Non availability of main power/availability of a rechargeable battery]
- Battery duration
- Small group of students

Any 2 from the above

(2 x 1.5 marks)

(Total marks - 25)

(a)

- | | | |
|------|--------|-----------|
| i. | E | (2 mark) |
| ii. | F | (2 mark) |
| iii. | A | (2 mark) |
| iv. | sch.lk | (3 marks) |

Note: **No** marks awarded for .lk, www.nie.sch.lk, nie.sch.lk etc

(b)

- | | | |
|------|---|-----------|
| i. | Switch / Hub | (3 marks) |
| ii. | Local Area Network/ LAN | (3 marks) |
| iii. | Network Interface Card / NIC/network card | (3 marks) |
- Note:** **No** marks for network port

iv.

- [Share hardware resources/ share devices/ naming a device to share]
- Share software resources
- [Remote access/ accessing machine from a another machine]
- Cost reduction through sharing of resources
- [Data /information sharing]
- Reliable data storage
- Centralized {data/ software} management
- Communicating with multiple users simultaneously using tools such as video conferencing, net-meetings

Note: Share resources carry **only** 2 marks

Any 2 points from above

(2 x 2 marks)

- v. Any 1 of (Printers/ Scanners/ Optical drives such as CD, DVD/Storage devices(External Hard Disk)/Router/Switch/Hub/Multimedia Projector/ Wireless Access Point) (3 marks)

(Total marks - 25)

(a)

- i. Word Art  / Font work Gallery 

(2 marks)

Note: Marks are awarded for correct icons

- ii. Insert → Picture → select location (c:\mydocs) → select the picture (mypic.jpg) → ok/select/press enter
OR
Insert → picture → from File → select file (mypic.jpg) from c:\mydocs → OPEN
Or
Select the [source] location → select picture → copy [picture] → go to the [destination] location in the document → paste
Or
Select the [source] location → select picture → drag to the [destination] location in the document

(4 marks)

Note: Correct first half steps (from left to right) or more (i.e 50%) starting from the first step awarded 2 marks.

- iii. Justify/Justified

(2 marks)

Note: Marks are not awarded for the icon

- iv. {Table →} Insert → Table → specify rows as 6 and columns as 2 → ok/ press enter
Or
Select table icon/insert table → select 6 rows and 2 columns from the grid
Or
Select table icon/insert table → Select draw table → draw 6 rows and 2 columns

(4 marks)

Note: Correct first half steps or more (i.e 50%) starting from the first step awarded 2 marks.

- v. Move cursor to right most column of the last row → press Tab key
OR
Move cursor to outside of the right most column of the last row → press Enter key
OR
Move the cursor to last row → Right click mouse → Insert → Insert Row Below
OR
Move the cursor to last row → Right click mouse → row → insert → give no of rows required as 1 → OK
OR
Move the cursor to last row → Select Layout → Select Insert Below

(3 marks)

Note: Correct first half steps or more (i.e 50%) starting from the first step awarded 1.5 marks.

(b)

- i. Any 3 of (Normal view/ Slide show view/ Slide sorter view/ Outline view/ Notes page/ Reading view/ Handout page)
(all 3 correct 4 marks, 2 correct 3 marks, 1 correct 2 marks)
- ii. slide sorter view (2 marks)
- iii. Format→Slide design→select design from given templates on the right side of the screen
OR
View → Master→Master slide→select design
OR
Activate task pane (View→ task pane) -> select required design from master pages
OR
Slide Design→ Select the design →right click → select all slides

(2 Marks)

Note: Correct first half steps or more (i.e 50%) starting from the first step awarded 1 marks.

- iv. Get the cursor to the first slide/ Move to the first slide
Right click the mouse/Format
Select Background command
Select the colour required
Click on "Apply" button
OR
Get the cursor to the first slide/ Move to the first slide
Right click the mouse/Format Background
Select the colour required
Click on "Apply" button

(2 marks)

Note: Correct first half steps or more (i.e 50%) starting from the first step awarded 1 marks.

(Total marks - 25)

(a)

i. =sum(C4:C25) (3 marks)

No marks for incorrect brackets/ranges

ii. =(C5-B5)*100/B5 or =(C5-B5)/B5*100 or =(C5-B5)/B5% (3 marks)

iii. =min(C4:C25) (3 marks)

iv. Bar Chart OR Column chart (2 marks)

Note : No Marks for justification if chart type is incorrect.

Changes can be compared easily /Differences can be identified easily (2 marks)

(b)

i. Number /Integer/numeric (2 marks)

Text (2 marks)

Text (2 marks)

Date and Time (Date) (2 marks)

Yes/No (2 marks)

OR

Number = Number /integer/numeric (2 marks)

Name = Text (2 marks)

Event = Text (2 marks)

DOB = Date and Time (Date) (2 marks)

Fee = Yes/No

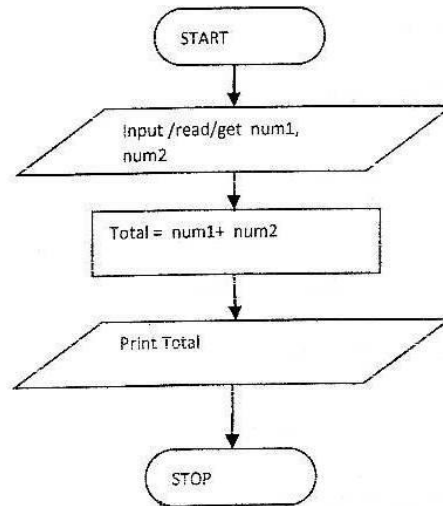
ii. Report (2 marks)3

(Total marks - 25)

(a)

- i. Any 2 of (the flow of logic is easy to follow/many people find diagrams easier to follow than text/has standard symbols/good for simple problems) (2 X 1.5 marks)

ii.



Note: No marks are awarded if arrows are missing

1 mark for start and stop

2 marks for both correct input & symbol (1 mark for correct symbol only)

2 marks for both correct process (equation) & symbol (1 mark for correct symbol only)

2 marks for both correct output & symbol (1 mark for correct symbol only)

4 marks are awarded if calculation is carried out while printing (i.e. merging total & print)
(Total 7 marks)

(b)

- | | | |
|------|---|--------------|
| i. | name, weight, height | (3 X 1 mark) |
| ii. | name, "You are underweight" Or name, "You are not underweight" | (2marks) |
| iii. | Count <= 40 | (2marks) |
| iv. | Count = Count + 1
Note: No marks are awarded for label names | (2marks) |
| v. | F, G or E,F,G | (2 x 1 mark) |
| vi. | 41 | (2 marks) |
| vii. | F | (2 marks) |

(Total marks - 25)

(a)

i. Developing web based applications

Developing web sites(pages)

Web designing

Any 2 of the above

(2 x 1 marks)

ii. Maintain hardware, software related to a computer network

Network address assignment

Managing routers

Maintaining network servers such as file server, proxy server, gateways, mail servers, etc.

Managing network security systems such as Intrusion Detection Systems

Any 3 of the above

(4 marks)

Note: All three correct 4 marks, two correct 3 marks, one correct 2 marks

(b)

i. Repetitive Stress Injury /(RSI)

(3 mark)

ii. Use of suitable chairs

Use of suitable desks

Correct posture

Resting eyes to reduce eye strain

Keeping suitable height and distance to monitor/display

Taking frequent breaks from work such as walking,

Positioning the computer to avoid glare

Any 3 from the above

(4 mark)

Note: All three correct 4 marks, two correct 3 marks, one correct 2 marks

(c)

i. *Any 2 of* (Internal messaging attached with infected files, email, unsecured websites, network not properly secured, sharing infected storage media) (2 x 2marks)

ii. Antivirus software

(2 mark)

Maintaining by regular updates

(2 mark)

iii. *Any 1 of* (Hacking, Unauthorized access/use (intruder), Malware [Worms, Trojans, Logic bombs]) (2 marks)

iv. *Any 1 of* (Install {hardware/software} firewalls, install Internet security software, password protection) (2 marks)

(Total marks - 25)



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ඕනෑම පොතක් ඉක්මනින්
නිවසටම ගෙන්වා ගන්න



කෙටි සටහන් | පසුගිය ප්‍රශ්න පත්‍ර | වැඩ පොත් සඟරා | O/L ප්‍රශ්න පත්‍ර |
A/L ප්‍රශ්න පත්‍ර | අනුමාන ප්‍රශ්න පත්‍ර | අතිරේක කියවීම් පොත් |
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කෙටි සටහන්, වැඩ පොත්, අතිරේක කියවීම් පොත්, සඟරා
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