

**GCE OL – Information and Communication Technology – 2011**  
**Paper I – Answers**

<b>Ques</b>	<b>Ans</b>	<b>Ques</b>	<b>Ans</b>
01	3	21	3
02	2	22	3
03	4	23	3
04	2	24	2
05	2	25	4
06	3	26	1
07	3	27	4
08	3	28	4
09	1	29	3
10	4	30	4
11	3	31	3
12	3	32	4
13	2	33	2
14	4	34	2
15	2	35	4
16	2	36	4
17	1	37	1
18	3	38	2
19	1	39	3
20	1	40	4

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**Paper II – Answers**

**Q1. (i) Special Purpose Computer, General Purpose Computer**

(ii) Input-Index No.

Process: validate and retrieve information from database

Output – Results

Note : Flowchart based symbols can also be used.

(iii) Email address : [exams@doenets.lk](mailto:exams@doenets.lk)

URL – [www.google.com](http://www.google.com)

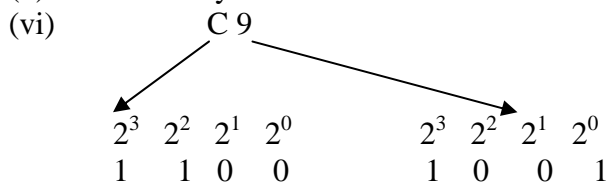
IP address : 172.16.12.1

Search Engine : Google

Web Browser : Internet Explorer

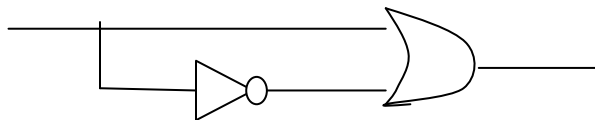
(iv)  $x.y + \overline{xy} = z$   
 $Z=1$

(v) number of symbols =  $2^8 = 256$



11001001

(vii)



(viii) A. Fla

B, swf

C canvas

D magic wand

(ix) Begin

Set Total to zero

For Counter =2 to 10 Step 2

Total = Total +Counter

Next Counter

End

x. Interviewing, Observation, Document Inspection, Questionnaire, Discussions/Brain Storming

Q2 (i) Bar Chart/Column Chart

.. (ii) =c4-b4

(iii) =c5-b5

(iv) =sum(d4:d8)

Q3. (i) Storing same data repeatedly. Eg. Nuha Jameel's details (Teacher ID/Date of Birth /Address )repeated

(ii) more storage capacity, wastes time, data can be inconsistent

(iii) Teacher Id – Text/Number/Numeric/String

(iv) Date of Birth - Date/Date and Time

(v) Address - Text/String

(vi) Subject ID – Text /String

(vii) Subject Name – Text String

Q4. i. Domain Name web site and a host. (computer /web host)

Obtain permission of the (web server/host)

Transfer the files in the web server

ii. (a) Digital Divide : the gap between the individual communities that have and those who do not have access to Information Technologies.

(b) Encryption: a mathematical technique used to scramble or encode a message into an unreadable format.

(c) Firewall : One or more systems that control access to computer networks. It controls access to computers by outside users. It also controls transfer of information from inside network to outside internet.

Q5. a

a 50 b No c Yes d. Yes e. No f. Number of House holds

b.

```
Begin/  
/Input Number of students n  
{Process} Student_count=0  
While student_count<n  
  Begin  
    (Input next student's name  
    IF student is present THEN  
      {Process} Write 'OK' in the file.  
    ELSE  
      {Process} Write 'Absent' in the file.  
    ENDIF  
    student_count=student_count+1  
  END-Loop  
END
```

Q6. (i).

a

- Reduce cost of goods due to reduction of overheads (such as shop space, electricity, staff salaries)
- Provide 24 hours 365 days service
- Selling goods to buyers at a distance (national and International market)
- Digital products can be delivered instantly (by downloading)
- No parking and other problems associated (traditional/brick-and-mortar) shopping.

b

- Use of Firewalls
- Use of (Secure user names and passwords/access privileges)
- Installing (virus guard/Anti virus application) or updating the virus guard software, or Installing Operating System (security patches/Security Software)

c

- Displaying advertisements in other websites
- Using 'Social media' advertisements
- Sending e-mail advertisements
- Using traditional media such as TV /Radio Advertisements or News papers Etc.

(ii)

- Should know with whom you are dealing with (find out about the seller eg. Purchase from reputed web sites.)
- Should know exactly what you are buying (read product details)
- Should know how much it will cost including delivery cost.
- Pay using a secure method.
- Check out the terms and conditions such as return policy.
- Print or save details of your transactions

Q7. (i)

(a) Teleconferencing, Online chatting, Video chat

(b)

- Efficient/fast
- Cost effective /cheap
- 24x365 availability/any time from any where
- Attachments could be sent
- Can send multiple copies simultaneously

(ii) (a)

- Economic feasibility – (Is the solution cost-effective?)
- Operational feasibility : (Possesses required human resources?)
- Technical feasibility : ( is a measure of the practicality of a specific technical solution and the availability of technical resources . Do we currently possess the necessary technology (Hardware/? )

(c) Parallel, It is safer

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