G.C.E. O/L Grade 11 ICT · Lesson 3

Lesson 3 O/L Exam Practice: Questions and Answers

These questions are in the style of the O/L ICT exam. Paper I has multiple choice questions. Paper II has structured questions with parts, model answers and marking points. They cover all of Lesson 3 (3.1 and 3.2): the Internet, URLs, IP addresses, domain names, DNS, client–server, HTTP and HTTPS, Internet services, search engines, reliable websites, e-mail addresses, To/CC/BCC, Reply/Reply All/Forward, netiquette, phishing, instant messaging, video calls, social media, PDPA and 2FA.

Paper I – Multiple choice questions (25)

1. The Internet uses the protocol family

A. Bluetooth only
B. TCP/IP
C. USB
D. HDMI

2. A company that connects homes to the Internet is an

A. DNS
B. URL
C. ISP
D. FTP

3. In https://schoolict.net/grade-11-ict-lesson-3-internet/?lang=si the path is

A. https
B. schoolict.net
C. lang=si
D. /grade-11-ict-lesson-3-internet/

4. In https://schoolict.net/grade-11-ict-lesson-3-internet/?lang=si the part after ? is the

A. domain
B. query
C. TLD
D. protocol

5. Which IPv4 address is valid?

A. 10.0.0.255
B. 192.168.1.300
C. 192.168.one.1
D. 10.0.0.1.5

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6. Which IPv4 address is invalid?

A. 203.0.113.25
B. 8.8.8.8
C. 192.168.1
D. 192.168.1.10

7. IPv6 addresses are

A. 128 bits, written in hexadecimal
B. the same as e-mail addresses
C. 32 bits in decimal
D. 8 bits only

8. ".gov.lk" is used by

A. all companies in the world
B. only universities
C. only e-mail servers
D. Sri Lankan government sites

9. O/L results are published by the Department of Examinations at

A. gmail.com
B. doenets.lk
C. nie.lk
D. youtube.com

10. The service that changes a domain name into an IP address is

A. FTP
B. BCC
C. DNS
D. HTTP

11. In the client–server model the server

A. types the URL
B. never stores web pages
C. is always a phone
D. sends back a response

12. The padlock in the address bar shows that

A. the connection is encrypted (HTTPS)
B. the site is free
C. the facts are true
D. there are no adverts

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13. Uploading a school website’s files to a server uses

A. DNS

B. CC

C. FTP

D. IPv6

14. Renting virtual servers in the cloud is

A. FTP

B. IaaS

C. SaaS

D. PaaS

15. Search engine order of work is

A. rank → crawl → index

B. print → crawl → rank

C. crawl → index → rank

D. index → rank → crawl

16. To search only the NIE website, use

A. filetype:nie.lk

B. nie.lk -syllabus

C. "nie" only

D. site:nie.lk syllabus

17. Which e-mail address is valid?

A. nimal.gmail.com

B. @gmail.com

C. nimal@gmail

D. kamala@school.edu.lk

18. Which e-mail address is invalid?

A. kamala@school.edu.lk

B. nimal@@gmail.com

C. nimal.perera@gmail.com

D. info@example.lk

19. A teacher e-mails all parents and hides their addresses from each other using

A. BCC

B. Subject

C. CC

D. Reply All

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20. Nimal sends To Kamal, CC Sunil, BCC Amali and Ravi. Which addresses does Ravi see?

A. None
B. Kamal, Sunil and his own
C. Only Amali
D. Kamal, Sunil, Amali and his own

21. Gmail’s usual attachment limit is about

A. 25 MB
B. 2 KB
C. 1 TB
D. 25 GB

22. A message asking you to “confirm your password by clicking this link” is

A. phishing
B. netiquette
C. a search engine
D. cloud computing

23. Which is a video communication tool?

A. Google Drive
B. FTP
C. Google Meet
D. Spotify

24. Repeatedly sending hurtful messages to a classmate online is

A. streaming
B. 2FA
C. netiquette
D. cyberbullying

25. A code sent to your phone in addition to your password is

A. two-factor authentication
B. spam
C. a BCC copy
D. a domain name

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Paper II – Structured questions

1. URLs. Study the URL in the figure. *(5 marks)*

(i) Name the protocol and the domain name. *(2 marks)*
(ii) Write the path and the query. *(2 marks)*
(iii) What does the “s” in https mean for the user? *(1 marks)*

2. IP addresses and domain names. *(6 marks)*

(i) State whether each is a valid IPv4 address: 10.0.0.255, 192.168.1.300, 10.0.0.1.5. *(3 marks)*
(ii) Why was IPv6 introduced? *(1 marks)*
(iii) Break e-thaksalawa.moe.gov.lk into its levels. *(2 marks)*

3. DNS and client–server. *(6 marks)*

(i) Describe what happens when a student types moe.gov.lk. *(4 marks)*
(ii) Name the client and the server in this example. *(2 marks)*

4. Internet services and searching. *(7 marks)*

(i) Name the service: (a) watching a YouTube lesson (b) saving homework in Google Drive (c) using a lab PC from home with Remote Desktop. *(3 marks)*
(ii) Explain the difference between the Internet and the WWW. *(2 marks)*
(iii) Write a search to find only PDF files of the ICT syllabus on nie.lk. *(2 marks)*

5. E-mail fields. Study the compose window. *(5 marks)*

(i) Which addresses will Kamal see when he opens the mail? *(2 marks)*
(ii) If Sunil clicks Reply All, who receives it? *(2 marks)*
(iii) Why should the subject line be filled in? *(1 marks)*

6. Safe communication. *(5 marks)*

(i) A message says: “You won Rs. 500,000! Send your bank PIN to claim.” Give two reasons it is phishing. *(2 marks)*
(ii) Explain how 2FA protects a WhatsApp or Gmail account. *(2 marks)*
(iii) Name the Sri Lankan law that protects personal data. *(1 marks)*

7. Social media and digital citizenship. *(6 marks)*

(i) Give two benefits of social media for a student. *(2 marks)*
(ii) Explain “digital footprint” and give one way to protect it. *(2 marks)*
(iii) How should you check a news post before sharing it? *(2 marks)*

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Exam tips

- Internet = network of networks (TCP/IP).
- URL = protocol :// domain / path ? query.
- IPv4 = four numbers, each 0–255.
- Read domains right to left: lk → gov → moe.
- DNS = name → IP address.
- Client requests, server responds; HTTPS encrypts.
- The Web is one service on the Internet.
- Search: crawl → index → rank; "", -, site:, filetype:.
- E-mail = user@domain; one @, no spaces.
- CC visible, BCC hidden; Reply All = To + CC.
- Phishing asks for passwords/PIN/OTP – never share.
- Digital citizen: privacy, respect, PDPA 2022, 2FA.

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Answers and explanations

Paper I

1. **B** – TCP/IP.
2. **C** – Internet Service Provider.
3. **D** – After the domain, before ?.
4. **B** – Query.
5. **A** – Four numbers 0–255.
6. **C** – Only three numbers.
7. **A** – IPv6 = 128 bits.
8. **D** – e.g. moe.gov.lk.
9. **B** – Department of Examinations.
10. **C** – Domain Name System.
11. **D** – Request → response.
12. **A** – Private, not proof of truth.
13. **C** – File Transfer Protocol.
14. **B** – Infrastructure as a Service.
15. **C** – Crawl first.
16. **D** – site: operator.
17. **D** – user@domain.
18. **B** – Two @ signs.
19. **A** – Blind copy.
20. **B** – BCC people do not see each other.
21. **A** – Bigger → share a Drive link.
22. **A** – Never give passwords.
23. **C** – Video calls.
24. **D** – Tell a trusted adult.
25. **A** – 2FA.

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Paper II – model answers and marking points

1. *(5 marks)*

(i) (2 marks)
Protocol https (1); domain schoolict.net (1).

https://schoolict.net/grade-11-ict-lesson-3-internet/?lang=si

https	schoolict.net	/grade-11-...-internet/	lang=si
Protocol ප්‍රොටෝකෝලය	**Domain name** වසම් නාමය	**Path** මාර්ගය (path)	**Query** විමසුම (query)

protocol :// domain / path ? query
ප්‍රොටෝකෝලය :// වසම / මාර්ගය ? විමසුම

Parts of a URL.

(ii) (2 marks)
Path /grade-11-ict-lesson-3-internet/ (1); query lang=si (1).

(iii) (1 marks)
Secure – data is encrypted (1).

🎯 Examiner tip: copy the URL parts exactly, including the slashes.

2. *(6 marks)*

(i) (3 marks)
10.0.0.255 valid (1); 192.168.1.300 invalid – 300 > 255 (1); 10.0.0.1.5 invalid – five numbers (1).

(ii) (1 marks)
IPv4 ran out of addresses (only about 4.3 billion) (1).

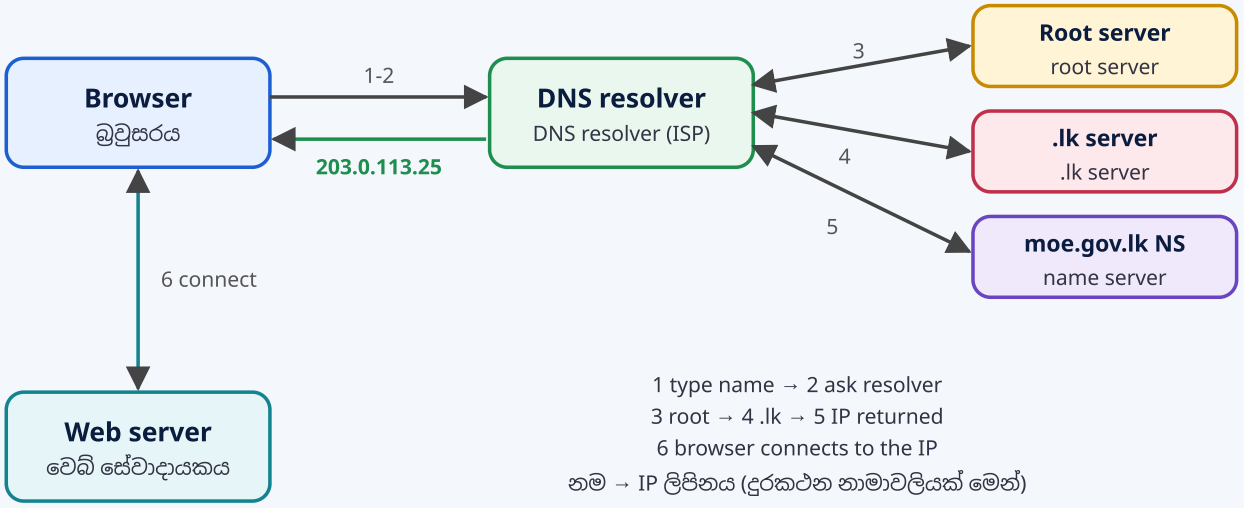
(iii) (2 marks)
lk – country TLD; gov – government; moe – Ministry of Education; e-thaksalawa – sub-domain (½ each).

🎯 Examiner tip: check every octet is 0–255 and count that there are exactly four.

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3. *(6 marks)*

(i) (4 marks)
Browser asks the DNS resolver (1); resolver asks root and .lk servers (1); name server returns the IP (1); browser requests the page from the web server at that IP and gets a response (1).



DNS lookup.

(ii) (2 marks)
Client – the web browser (1); server – the web server holding moe.gov.lk (1).

🎯 Examiner tip: DNS gives the IP; the web server gives the page – do not mix them up.

4. *(7 marks)*

(i) (3 marks)
(a) streaming (1) (b) cloud computing / storage (1) (c) remote access (1).

(ii) (2 marks)
Internet – the worldwide network (1); WWW – linked web pages, one service on the Internet (1).

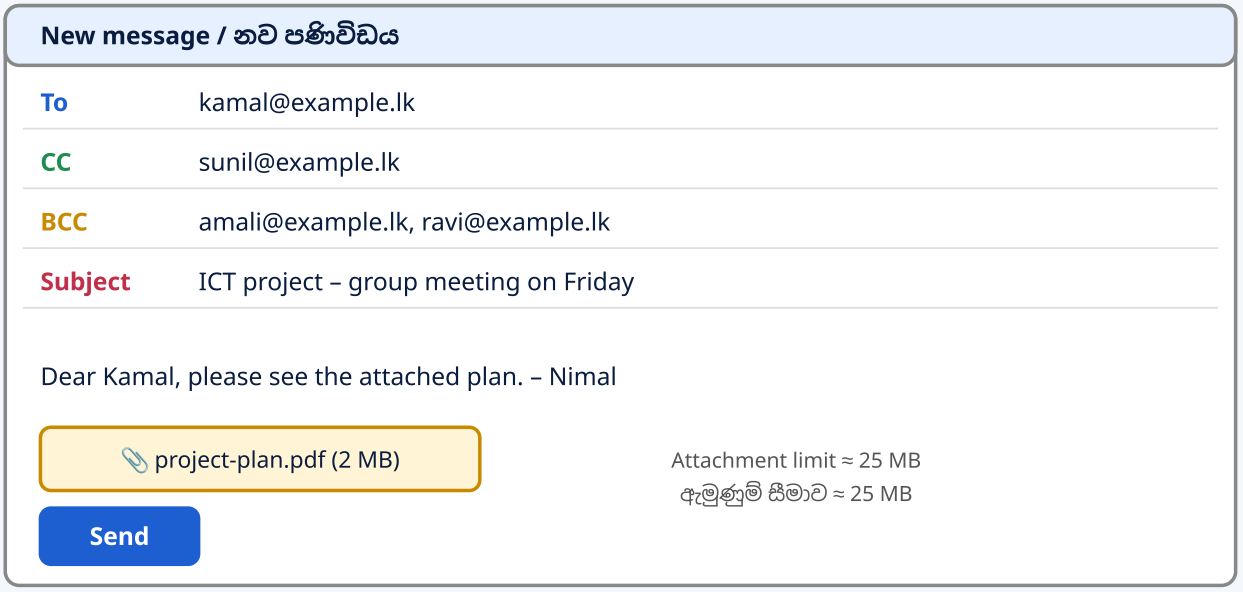
(iii) (2 marks)
ICT syllabus site:nie.lk (1) filetype:pdf (1).

🎯 Examiner tip: the Web runs on the Internet – they are not the same thing.

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5. *(5 marks)*

(i) (2 marks)
Nimal (sender) (1); Kamal and Sunil – not Amali or Ravi (1).



E-mail compose window.

(ii) (2 marks)
Nimal and Kamal (2) – BCC people are not included.

(iii) (1 marks)
So the reader knows what the mail is about / good netiquette (1).

🎯 Examiner tip: Reply All goes to To and CC only – never to BCC.

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6. *(5 marks)*

(i) (2 marks)
A prize you never entered (1); asks for a PIN (1).

(ii) (2 marks)
A second code on your phone is needed (1), so a stolen password alone cannot open it (1).



Two-factor authentication.

(iii) (1 marks)
Personal Data Protection Act No. 9 of 2022 (1).

🎯 Examiner tip: give signs taken from the message in the question.

7. *(6 marks)*

(i) (2 marks)
Keep in touch; learn from videos; share work; quick news (any two, 2).

(ii) (2 marks)
The record of what you do online that can stay forever (1); private settings / think before posting (1).

(iii) (2 marks)
Check it on two reliable or official sources (1) and look at the date and author (1).

🎯 Examiner tip: for benefits and risks, write clear separate points.

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