G.C.E. O/L Grade 11 ICT · Lesson 6

Lesson 6 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 6 (6.1–6.10): ICT in health, education, agriculture, industries, business and entertainment, legal and ethical issues, Sri Lanka's ICT laws, protecting ICT infrastructure, health and safety, e-waste, the digital divide, jobs and safe use of social media.

Paper I – Multiple choice questions (25)

1. A doctor in Colombo examines a patient in Jaffna by video call. This is

A. CAD
B. telemedicine
C. e-commerce
D. piracy

2. A heart monitor gives an alert when the heart rate is outside 60–100. Readings: 08:00 72, 10:00 88, 12:00 118, 14:00 95, 16:00 54. Alerts happen at

A. 10:00 and 14:00
B. only 12:00
C. 12:00 and 16:00
D. 08:00 and 10:00

3. Keeping a patient's history on computer so any hospital can see it is

A. a storyboard
B. a spam filter
C. a printed X-ray
D. an electronic medical record

4. Software that lets teachers share lessons, give quizzes and track marks online is an

A. CNC
B. LMS
C. CCTV
D. UPS

5. A greenhouse switches the fan ON when temperature is above 30 °C. At 34 °C the fan is

A. ON
B. not needed
C. broken
D. OFF

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6. A farmer sells vegetables directly to buyers through a mobile app. This is a

A. simulation
B. key-logger
C. virtual market
D. digital divide

7. Designing a new product on a computer is

A. CAD
B. CAM
C. BPO
D. RSI

8. Machines controlled by computer to cut and make parts use

A. LMS
B. CAD
C. EMR
D. CAM

9. Selling an old bicycle to another person on a website is

A. B2C
B. C2C
C. B2B
D. BPO

10. 100 shares bought at Rs. 50 are sold at Rs. 56. The gain is

A. Rs. 5,600
B. Rs. 6
C. Rs. 600
D. Rs. 5,000

11. A Sri Lankan company handles customer calls for a foreign bank. This is

A. fair use
B. CAM
C. C2C
D. IT BPO

12. Making drawings appear to move by showing many frames quickly is

A. animation
B. forgery
C. mixing
D. phishing

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13. Pilots practise in a flight simulator mainly because it is

A. more fun than flying
B. required by CSE
C. safe and cheap
D. free of electricity

14. Illegally copying and selling software is

A. a patent
B. piracy
C. fair use
D. backup

15. Hacking into a computer is a crime under the

A. Electronic Transactions Act No. 19 of 2006
B. Right to Information Act No. 12 of 2016
C. Computer Crimes Act No. 24 of 2007
D. Intellectual Property Act No. 36 of 2003

16. Which Act makes organisations protect personal data?

A. RTI No. 12 of 2016
B. IP Act No. 36 of 2003
C. ETA No. 19 of 2006
D. PDPA No. 9 of 2022

17. Copying a classmate’s essay and handing it in as your own is

A. simulation
B. a patent
C. fair use
D. plagiarism

18. A 108 Wh UPS supplies a 180 W load. It runs for about

A. 18 minutes
B. 36 minutes
C. 72 minutes
D. 108 minutes

19. Which is an example of logical security?

A. software firewall
B. door lock
C. surge protector
D. CCTV

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20. Malware that records the keys you press is a

A. cookie
B. key-logger
C. spam
D. UPS

21. Wrist pain from using a mouse for many hours is

A. RSI
B. e-waste
C. glare
D. deepfake

22. In the 20-20-20 rule you look about 6 m away for

A. 20 seconds
B. 2 hours
C. 2 seconds
D. 20 minutes

23. Which is the safest way to deal with an old computer?

A. throw it in a canal
B. bury it
C. wipe the data and give it to an approved recycler
D. burn it

24. The gap between people who can and cannot use ICT is the

A. fair use
B. digital bridge
C. de-skilling
D. digital divide

25. Someone posts hurtful comments about you on social media. You should

A. block, report and tell a trusted adult
B. reply with insults
C. delete your school
D. share your password

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Paper II – Structured questions

1. ICT in health. A hospital uses a heart monitor and electronic medical records. *(6 marks)*

(i) The normal range is 60–100 beats per minute. Use the chart to give the times when an alert is shown. *(2 marks)*
(ii) Give two advantages of electronic medical records. *(2 marks)*
(iii) What is telemedicine? Give one benefit for people in villages. *(2 marks)*

2. Education and agriculture. *(5 marks)*

(i) Name an LMS and give two things students can do with it. *(3 marks)*
(ii) A greenhouse turns the fan ON above 30 °C and water ON below 40% soil moisture. What happens at 16:00 when the reading is 32 °C and 30%? *(2 marks)*

3. Industry and business. *(7 marks)*

(i) What is the difference between CAD and CAM? *(2 marks)*
(ii) Nimal buys 100 shares at Rs. 50 and sells at Rs. 56. Calculate the gain. *(3 marks)*
(iii) Give two safety measures when shopping online. *(2 marks)*

4. Entertainment. *(6 marks)*

(i) Give two ways ICT is used to make movies or cartoons. *(2 marks)*
(ii) Name two tasks done with digital sound editing software. *(2 marks)*
(iii) What is a simulation? Give one example. *(2 marks)*

5. Legal and ethical issues. *(5 marks)*

(i) Complete the table: name the Act for (a) hacking, (b) personal data, (c) copyright. *(3 marks)*
(ii) Explain the difference between fair use and plagiarism. *(2 marks)*

6. Protecting ICT infrastructure. *(7 marks)*

(i) A UPS stores 108 Wh and the load is 180 W. Calculate the running time in minutes. *(2 marks)*
(ii) Give one physical and one logical security method. *(2 marks)*
(iii) Explain the 3-2-1 backup rule. *(3 marks)*

7. Health, e-waste and society. *(8 marks)*

(i) Name two health problems from long computer use and one way to prevent each. *(4 marks)*
(ii) Name one hazardous element in e-waste and a safe disposal method. *(2 marks)*
(iii) What is the digital divide? Give one way to build a digital bridge. *(2 marks)*

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Exam tips

- Telemedicine = care at a distance; EMR = records on computer.
- LMS (e.g. Moodle) for lessons, quizzes and marks.
- Greenhouse sensors switch fans and water automatically.
- CAD designs; CAM makes; robots do repeated work.
- Gain = selling value − cost.
- Online shopping: https, never share OTP.
- Animation, sound mixing, games and simulations use ICT.
- Laws: IP 2003, ETA 2006, CCA 2007, RTI 2016, PDPA 2022, OSA 2024.
- Fair use names the source; plagiarism hides it.
- UPS minutes = Wh ÷ W × 60; backups 3-2-1.
- RSI, eye strain (20-20-20), backache; recycle e-waste.
- Digital divide vs digital bridge; de-skilling vs techno-rich jobs.

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Answers and explanations

Paper I

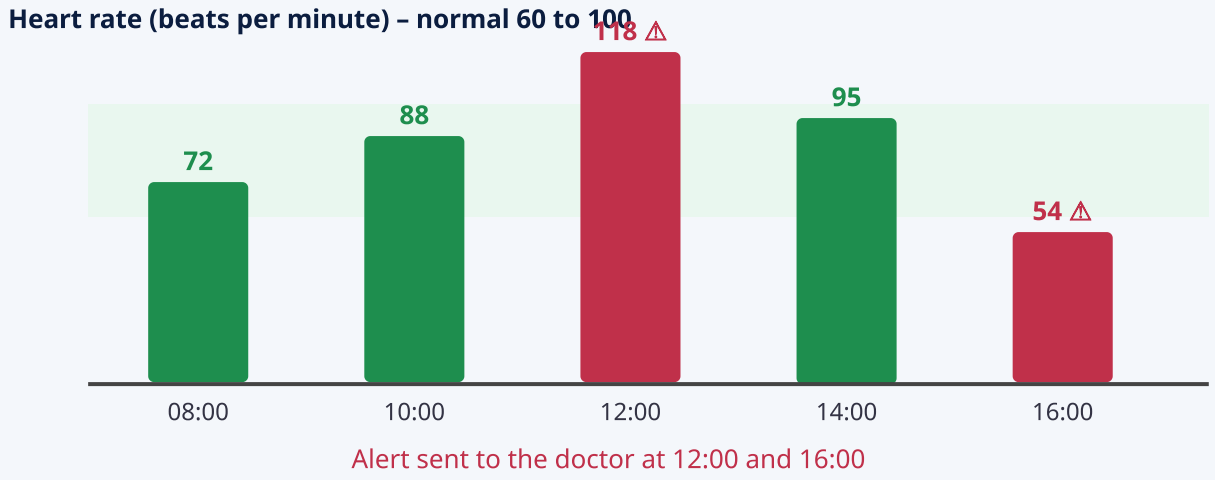
1. **B** – Medical care at a distance.
2. **C** – Above 100 or below 60.
3. **D** – EMR.
4. **B** – Learning Management System, e.g. Moodle.
5. **A** – 34 > 30.
6. **C** – Buying and selling online.
7. **A** – Computer Aided Design.
8. **D** – Computer Aided Manufacturing.
9. **B** – Customer to customer.
10. **C** – 5,600 − 5,000.
11. **D** – Business Process Outsourcing.
12. **A** – Frames shown fast.
13. **C** – Mistakes harm no one.
14. **B** – Breaks the Intellectual Property Act.
15. **C** – CCA 2007.
16. **D** – Personal Data Protection Act.
17. **D** – An ethical issue.
18. **B** – 108 ÷ 180 × 60.
19. **A** – It protects data with software.
20. **B** – It steals passwords.
21. **A** – Repetitive Strain Injury.
22. **A** – Every 20 minutes.
23. **C** – E-waste has lead and mercury.
24. **D** – Close it with a digital bridge.
25. **A** – Precautions against cyberbullying.

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Paper II – model answers and marking points

1. *(6 marks)*

(i) (2 marks)
12:00 (1) and 16:00 (1).



Heart rate readings for one patient.

(ii) (2 marks)
Any hospital can see the history quickly (1); records are not lost and are easy to search (1).

(iii) (2 marks)
Medical care at a distance using ICT (1); no need to travel far to a specialist (1).

🎯 Examiner tip: read values carefully from the chart and compare with both limits.

2. *(5 marks)*

(i) (3 marks)
Moodle or Google Classroom (1); download lessons (1); do quizzes or hand in work (1).

(ii) (2 marks)
Fan ON because 32 > 30 (1); water ON because 30 < 40 (1).

🎯 Examiner tip: give a reason with each action – compare the reading with the limit.

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3. *(7 marks)*

> **(i)** (2 marks)
> CAD – designing on a computer (1); CAM – computer-controlled machines make the product (1).

> **(ii)** (3 marks)
> Cost Rs. 5,000 (1); value Rs. 5,600 (1); gain Rs. 600 (1).

> **(iii)** (2 marks)
> Check https and the padlock (1); never share the OTP or PIN (1).

🎯 Examiner tip: show the working in calculations – each step earns a mark.

4. *(6 marks)*

> **(i)** (2 marks)
> Special effects or green screen (1); animation software for cartoons (1).

> **(ii)** (2 marks)
> Remove noise (1); mix tracks or cut and join (1).

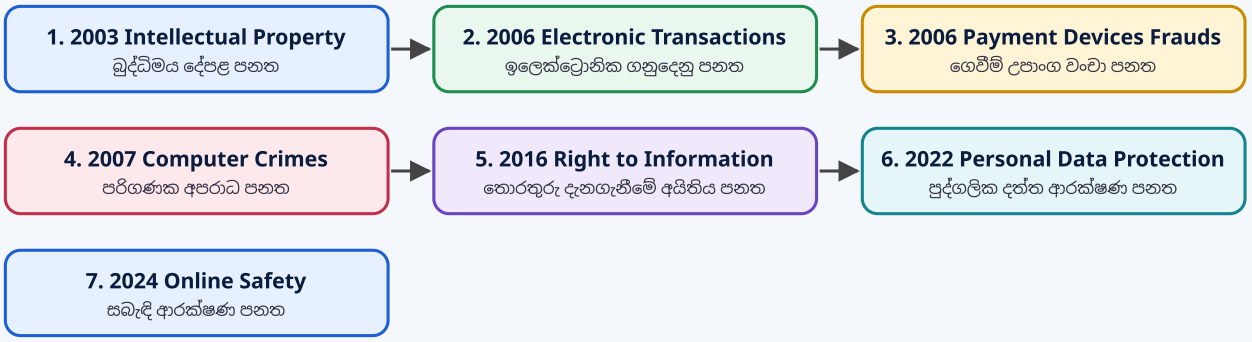
> **(iii)** (2 marks)
> A computer model of a real situation (1); flight or driving simulator (1).

🎯 Examiner tip: give a real example for each use.

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5. *(5 marks)*

(i) (3 marks)
(a) Computer Crimes Act 2007 (1); (b) PDPA 2022 (1); (c) Intellectual Property Act 2003 (1).



Sri Lanka's ICT laws.

(ii) (2 marks)
Fair use – a small part for study with the source named (1); plagiarism – presenting others' work as your own (1).

🎯 Examiner tip: learn the Act names with their years.

6. *(7 marks)*

(i) (2 marks)
108 ÷ 180 × 60 (1) ≈ 36 minutes (1).

(ii) (2 marks)
Physical: door lock, CCTV or surge protector (1); logical: password, software firewall or backup (1).

(iii) (3 marks)
3 copies (1); 2 kinds of media (1); 1 copy off-site (1).



The 3-2-1 backup rule.

🎯 Examiner tip: write the formula first, then the numbers.

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7. *(8 marks)*

(i) (4 marks)
RSI (1) – rest and keep wrists straight (1); eye strain (1) – 20-20-20 rule (1).

(ii) (2 marks)
Lead or mercury (1); give to an approved recycler (1).

(iii) (2 marks)
The gap between people who can and cannot use ICT (1); Nenasala centres or Sinhala and Tamil software (1).

🎯 Examiner tip: pair each problem with its own precaution.

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