

PRUEBAS DE ACCESO A LA UNIVERSIDAD PARA MAYORES DE 25 AÑOS – MAYO 2011
PROVES D'ACCÉS A LA UNIVERSITAT PER A MAJORS DE 25 ANYS – MAIG 2011

EJERCICIO/EXERCICI DE: INGLÉS / ANGLÉS

OBSERVACIONES/OBSERVACIONS:

Lea con detenimiento, al menos dos veces, el siguiente texto y responda a continuación, en inglés y en la hoja de respuestas, a las cinco preguntas formuladas. Para ello dispone de una hora. En las preguntas (1) y (5) deberá evitar la reproducción literal del original.

Llegiu el text següent amb atenció, almenys dues vegades, i responeu després, en anglés i en un full d'examen a banda, les cinc preguntes formulades. Hi disposeu d'una hora. En les preguntes (1) i (5) heu d'evitar la reproducció literal de l'original.

GSM phones vulnerable to hacking, claim researchers

A pair of security researchers have told a Berlin conference how they were able to eavesdrop¹ on mobile phone calls and texts made on any GSM network –used by around 80% of the world's phones– using four cheap phones, a laptop and some open source software.

Karsten Nohl and Sylvain Munaut spent a year perfecting their eavesdropping technology, which begins by sending a "ghost" text message to a target phone that does not show up on the handset but enables the hacker to seize its unique identification number.

The pair, who gave a live demonstration to the Chaos Computer Club Congress in Berlin this week, said the whole process takes about 20 seconds, enabling phone conversations and SMS messages to be recorded and decrypted.

"Any GSM call is fair game," Nohl told the BBC. "Now there's a path from your telephone number to me finding you and listening to your calls. The whole way."

Nohl said commercially available equipment capable of eavesdropping on other people's phone calls and text messages would previously have cost more than £35,000. He said the four Motorola phones used in their demonstration cost £9 each.

He told the conference that while computing power had continued to evolve, GSM phone software had become out of date.

"This is all a 20-year-old infrastructure, with lots of private data and not a lot of security," Nohl said. "We want you to help phones go through the same kind of evolutionary steps that computers did in the 1990s."

Nohl said there were no plans to make the eavesdropping kit available for others to use, but suggested it would not be difficult for a keen amateur to follow their lead. "I expect people to do it for the fun of doing it," he added.

Adapted from **John Plunkett's** article published in guardian.co.uk, on Friday 31 December 2010

¹ Eavesdrop: Listen secretly to what someone is saying (escuchar en secreto, fisurejar / tafanejar).

Questions:

1. State in your own words what the text means by: (paragraph 7) "We want you to help phones go through the same kind of evolutionary steps that computers did in the 1990s."
(2 marks)

2. Decide whether the following statements are true (T) or false (F) according to the text. If the answer is not mentioned in the text, mark it as false. **(2 marks)**
 - a) Nohl and Munaut's technology permits hackers to get the telephone identification number.
 - b) Nohl and Munaut's technology is extremely expensive.
 - c) Nohl and Munaut say GSM phone software is old-fashioned.
 - d) Nohl and Munaut do not plan to extend the use of their technology.

3. These words are all found in the text: **demonstration, whole, available, power, kit, keen, fun**. Choose the ones that mean the same as the following words. **(2 marks)**
 - a) energy
 - b) show
 - c) set
 - d) complete

4. Choose *a*, *b* or *c* to complete the sentence correctly according to the information in the text. Only one answer is correct. **(2 marks)**
 - 4.1 The GSM network ...
 - a) is used by 80% of the world's countries.
 - b) is the most common network in the world.
 - c) is used by over 80% phones in the world.

 - 4.2 Nohl and Munaut demonstrated ...
 - a) it is not possible to record and decrypt whole phone conversations and messages.
 - b) it is possible to record and decrypt parts of GSM phone calls.
 - c) it is possible to identify and listen to GSM phone calls.

 - 4.3 Nohl and Munaut's equipment cost...
 - a) £35000.
 - b) £36.
 - c) £9.

 - 4.4 Nohl and Munaut said computing power....
 - a) and GSM phone software had made progress during the last 20 years.
 - b) had evolved since the 1990s but GSM had not.
 - c) and GSM phone software had not evolved since the 1990s.

5. Answer the following two questions: **(2 marks)**
 - a) Do you think it is possible to prevent hacking into private messages? Give reasons.
 - b) What are the consequences of hacking?