ЕКЗАМЕНАЦІЙНИЙ БІЛЕТ №

Fill in the gaps in the sentences below. Only one correct answer is possible. Write your answers (a, b, c, d) on the separate answer sheet.

1. Bandwidth exists in physical or _____communication networks.
a)wired; b)wiring; c)wires; d) wireless

2.Technically, computers use algorithms to list the detailed instructions for _____ out an operation.
a) carrying; b)solving; c)performing; d)doing

3. Application layer security ensures control over the content and services_____ on the Web server.
a)host; b)hostess; c) hosted; d)hostile

4. The Fibonacci sequence is widely _____in applications pertaining to mathematics, science, computers, art and nature.
a) used; b)uses; c)using; d)usage

5. Localhost is specified in place of using a computer's host name. It generally_____ to an IPV4 address in the 127.0.0.0/8 (loopback) net block or ::1 in IPV6.
a)translated; b) have translated; c) translation; d) translates

6. -45. …...

After Tesla: why cybersecurity is central to the car industry's future

The news that a Tesla car was **46**_____ from 12 miles away tells us that the explosive growth in automotive connectivity may be rapidly outpacing automotive security. This leads to an approach where **47**_____ is not baked in at the design stage for either hardware or software but added in after vulnerabilities are discovered once the product is on the market.

Car manufacturer relying on external security researchers to find and fix flaws, instead of designing and testing robust software in the first place. These problems increasingly **48**_____ from old software vulnerabilities that keep reappearing in new technology; 100 million Volkswagens were recently found to have 20-year-old software flaws. If the cybersecurity and software development communities continue to see themselves as separate islands of expertise, then mistakes will be continuously replicated.

Many cybersecurity issues result not from a lack of specialist info security personnel but a lack of info security training and awareness among other professions. Cybersecurity will no longer be taught as a standalone subject but will soon be part of every computing **49**_____. Eventually, we will have to move away from the view of software design and info security as separate specialism, and move towards a culture where security is a **50**_____ part of all technological innovation.

46. a) crushed; b) cracked; c) hacked; d) opened

47.a) communications; b) technology; c) security; d) bread

48. a) consist; b) prepare; c) go; d) arise

49. a) system; b) degree; c) equipment; d) machine

50. a) core; b) interesting; c) opened; d) computing