

### **1. Answer the questions**

- What is an information system?
- Why do we need information systems?
- Who uses information systems in a typical organization?

### **2. Fill in the blank**

1. A [blank] is an electronic component that can be used as an amplifier or as a switch. It is used to control the flow of electricity in radios, TV, computers, etc.
2. The [blank] is often referred to as the brain or engine of a computer where most of the processing and operations take place.
3. [Blank] is a low-level programming language comprised of a collection of binary digits (ones and zeros) that the computer can read and understand.
4. [Blank] is an area of computer science that dealing with the simulation and creation of intelligent machines or intelligent behave in computers.
5. The [blank] language was used in first generation of computers.
6. An [blank] device is a piece of hardware device which is used to enter information to a computer for processing.
7. [Blank] software is designed to run a computer's hardware and application software, and make the computer system available for use. It serves as the interface between hardware, application software, and the user.
8. A [blank] driver is a software program that is designed to control a particular hardware device that is attached to a computer.

### **3. Read the information about enterprise databases. Change the sentences into the active or passive ones.**

#### Enterprise Databases

1. If only a single user can use a database at a time it is not going to meet the needs of most organizations.
2. As they have networked computers and now join them worldwide via the Internet, a class of database has emerged that two, ten, or even a million people can access.
3. These databases are sometimes installed on a single computer to be accessed by a group of people at a single location.
4. Other times, they install them over several servers worldwide, which means millions are able to access them.
5. These relational enterprise database packages are built and supported by companies such as Oracle, Microsoft, and IBM. The open-source MySQL is also an enterprise database.
6. As stated earlier, the relational database model does not scale well.
7. The term scale here refers to a database getting larger and larger, being distributed on a larger number of computers connected via a network.

8. Moving away from the relational model to other, more flexible models some companies are looking to provide large-scale database solutions.
9. For example, Google now offers the App Engine Datastore, which is based on NoSQL.
10. Developers can use the App Engine Datastore to develop applications that access data from anywhere in the world.

**4. Use the phrases given below in the sentences of your own**

Crypto wars, crypto and surveillance debates, voice calls and text messages decryption, eavesdropping protection, snooping prevention, crypto technology deployment, information dissemination, data leak prevention.

**5. Read the following short text each line of which contains deliberate grammar mistake/-s. Find eleven mistakes and correct them.:**

Mobile-friendly will be the new standard

While in past many online shoppers have bought products via the Internet through their desktop or laptop, many consumers have begun to embrace smartphones

full-on replacements towards personal computers. As soon as smartphones will become more cheap and easy to access, websites will have to adapt to the growing

community of users which only view their sites on mobile. With order to compete in the mobile commerce market, companies will be needed to adapt their websites and make them mobile friendly. Sites that aren't will be ignoring by millennials, who can quick find an easier-to-use platform.

**6. Match each item in Column A with its function in Column B. Then describe its function in two ways.**

A Item	B Function
RAM	controls the cursor
processor	inputs data through keys like a typewriter
mouse	displays the output from a computer on a screen
clock	reads DVD-ROMs
flash memory key	reads and writes to electronic chips on a card
monitor	holds instructions which are needed to start up the computer
keyboard	holds data read or written to it by the processor
DVD-ROM drive	provides extremely fast access for sections of a program and its data
cache	controls the timing of signals in the computer
ROM	controls all the operations in a computer

**7. Mark the following as True or False:**

1. Data mining is a process of analysing known patterns in data.
2. Artificial intelligence is commonly used in data mining.
3. In data mining, patterns found while analysing data are used for further analysing the data.
4. Data mining is used to detect false insurance claims.
5. Data mining is only useful for a limited range of problems.

**8. Complete each gap in these sentences with the appropriate form of the correct verb from this list:**

back up, keep up, update, build up, set up, upgrade, catch up, start up, upload, free up

1. To avoid losing data, you should ... your files regularly.
2. You can ... your PC by adding a new motherboard.
3. Delete some files to ... space on your hard disk.
4. Data is ... from regional PCs to the company's mainframe each night.
5. The operating system boots when you ... your computer.
6. She's taking a course to ... her knowledge of computing.
7. The computer checks the memory when it ...

8. He ... a website to advertise his travel company.
9. You can ... with developments by reading PC magazines.
10. If you miss a class, you can study the handouts to ...
11. The image in a digital camera is ..... from a red, green and blue image.

**9. Put these instructions for opening a computer in the correct sequence.**

- Release the two catches underneath and lift up to remove panel.
- Shut down your computer by choosing Shut Down from the apple menu or the Special menu.
- If there are security screws on the vertical plate on the back of the computer, remove them with Philips screwdriver.
- Unplug all the cables except the power cord from your computer.
- Pulling gently, slide the tray out.

**10. Complete these sentences with the correct form of the verb: infinitive or -ing form.**

1. Don't switch off without (close down) your PC.
2. I want to (upgrade) my computer.
3. He can't get used to (log on) with a password.
4. You can find information on the Internet by (use) a search engine.
5. He objected to (pay) expensive telephone calls for Internet access.
6. He tried to (hack into) the system without (know) the password.
7. You needn't learn how to (program) in HTML before (design) webpages.
8. I look forward to (input) data by voice instead of (use) a keyboard.