

## End of topic quiz

### Topic 1.5 Systems software

1. What is an operating system?

2. What is meant by a user interface?

3. What is meant by a Graphic User Interface (GUI)?

4. How is a Command Line Interface (CLI) used?

5. What is meant by a multitasking operating system?

6. What is memory management?

7. What is peripheral management?

8. What is the purpose of a device driver?

9. In a network what is meant by user management?

10. What is meant by file management?

11. What is meant when a message is described as encrypted?

12. What is the purpose of encryption software?

13. How is an encrypted email message sent and received?

14. What is a disadvantage of always sending encrypted messages?

15. What is the encryption method used by web browsers to encrypt details of purchases?

16. What is meant by defragmentation?

17. What is meant by data compression?

## Answers

1. What is an operating system?

- Software that tells the computer hardware what to do.
- Software that allows the computer to run applications.
- Software that controls the operations of a computer.
- System software that manages the memory, processes and hardware of a computer
- Software that provides an interface for the user to communicate with the hardware

2. What is meant by a user interface?

- A computer design that allows the user to interact with the computer.
- Human-computer interaction.
- A visual/auditory/set of devices for human to interact with the computer.
- Graphical or textual or auditory information that a program presents to the computer user.

3. What is meant by a Graphic User Interface (GUI)?

- A user interface that uses graphics/images and words to represent the interaction between the end user and a computer.
- Icons to represent actions and resources.

4. How is a Command Line Interface (CLI) used?

- User provides a text input/command/string using the computer keyboard and the computer displays/prints/outputs text on the monitor.

5. What is meant by a multitasking operating system?

- Many (multiple) tasks/instructions that can be executed on a single computer simultaneously.
- Operating system has several processes running at the same time.

**6. What is memory management?**

- Management/organisation of memory at the system level.
- Memory management is used to allocate free memory to programs that need it, and free up memory where it is not needed.
- Process of controlling the computer's memory to optimise its system performance.

**7. What is peripheral management?**

- Allows a computer's external devices to communicate with the computer system.
- Controls external devices by sending them commands.

**8. What is the purpose of a device driver?**

- Software that uses signals to control the computer's devices.
- Software that takes care of the actions of the computer's devices.
- A program that enables the computer's devices to communicate with the computer.

**9. In a network what is meant by user management?**

- The administrative feature of a computer system to allocate an account or control user access into a network.
- Authentication feature of a computer that allows an administrator to be added or amend user details on a network.

**10. What is meant by file management?**

- A system that is used by the operating system to organise and keep track of files.
- A software that manages data files.
- Features include naming, allocating folders, Moving Files, Saving files.

**11. What is meant when a message is described as encrypted?**

- When a scrambled message is sent from one computer to another computer and is only able to unscramble the message using of a key/secret code.

12. What is the purpose of encryption software?

- Software that encrypts (and decrypts) files on a hard disk/data packets over a network.

13. How is an encrypted email message sent and received?

- The original message is scrambled
  - using a large digital number/key.
- The receiver will use the key to unscramble and then receive the original message.

14. What is a disadvantage of always sending encrypted messages?

- Takes longer for messages to be sent/received since it needs to be scrambled and then unscrambled.
- A digital certificate is required as it contains part of the key/special code.

15. What is the encryption method used by web browsers to encrypt details of purchases?

- Secure Socket Layer/SSL.

16. What is meant by defragmentation?

- The process of physically organising the mass storage device into the smallest number of fragments.

17. What is meant by data compression?

- When a device uses fewer bits to transmit the same amount of data.

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