End of topic quiz - Topic 1.5 Systems software

1. What is an operating system? [1 mark]

2. What is meant by a user interface? [1 mark]

3. What is meant by a Graphic User Interface (GUI)? [1 mark]

4. How is a Command Line Interface (CLI) used? [1 mark]

5. What is meant by a multitasking operating system? [1 mark]

6. What is memory management? [1 mark]

7. What is peripheral management? [1 mark]

8. What is the purpose of a device driver? [1 mark]

9. In a network what is meant by user management? [1 mark]

10. What is meant by file management? [1 mark]

11. What is meant when a message is described as encrypted? [1 mark]

12. What is the purpose of encryption software? [1 mark]

13. How is an encrypted email message sent and received? [1 mark]

14. What is a disadvantage of always sending encrypted messages? [1 mark]

15. What is meant by defragmentation? [1 mark]

16. What is meant by data compression? [1 mark]

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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 meant by defragmentation?

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

16. What is meant by data compression?

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