Central Administration for General Education

Educational Computer Material Development Department

**Under the patronage of His Excellency the Minister of Education,**

**Mr. Mohamed Abdel Latif**

# Weekly Assessments for Programming and Artificial Intelligence for General Education (First Secondary Grade)

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# Weekly assessment

## First test

**First:**

1. **What is meant by the concept of 'Computer Software', and what is the main difference between it and hardware?**
2. **Explain the main function of the 'Operating System' as a key component in managing the computer's software and hardware resources.**

**Put (√) mark in front of the correct statement and (×) mark in front of the wrong statement:**

3. **Application software works directly on controlling the hardware parts of the computer without the need for an operating system. ( )**

**Choose the correct answer:**

**4. The main program that manages computer hardware and provides an operating environment for other programs is known as:**

**A) Application software**

**B) Operating System**

**C) Language compilers**

**D) Compression and storage tools**

# Second test

**First:**

1. **Compare "System Software" and "Application Software" and give an example of each.**
2. **What is meant by "Utility Software," and what role does it play in protecting and maintaining the computer?**

**Put (√) mark in front of the correct statement and (×) mark in front of the wrong statement:**

3. **Word processing programs and internet browser programs are considered examples of basic system software. ( )**

**Choose the correct answer:**

4. **Antivirus programs and hard disk cleaning tools are classified as:**
   - **A) Utility software**
   - **B) Source languages**
   - **C) Video game software**
   - **D) Secondary hardware components**

# Third test

**First:**

1. **What is meant by 'Programming Languages', and how are they generally classified into low-level languages and high-level languages?**
2. **Explain the importance of 'Compilers & Interpreters' in converting programming code into machine language that the computer can understand?**

**Put (√) mark in front of the correct statement and (×) mark in front of the wrong statement:**

3. **High-level programming languages are close to human language and easy to understand compared to machine language. (  )**

**Choose the correct answer:**

4. **The only language that a computer processor understands directly, consisting of zeros and ones (0 and 1), is:**
   **A) Python**
   **B) Machine Language**
   **C) Assembly**
   **D) Java**

## Classroom Assessment:

**First:**

1. **Explain the integrative relationship between the user, application software, the operating system, and hardware components while performing any computer task sequence?**
2. **What is the difference between proprietary software and open-source software in terms of the ability to modify and develop?**

**Put (√) mark in front of the correct statement and (×) mark in front of the wrong statement:**

3. **Open-source software allows developers to view and freely modify the source code. ( )**

**Choose the correct answer:**

4. **4. Which of the following programs is considered a free and open-source operating system developed by programming communities around the world?**

**A) Microsoft Windows**

**B) Linux**

**C) macOS**

**D) Adobe Photoshop**

## Homework Assignment:

**First:**

1. **Name three main functions that the operating system performs while the computer is running?**
2. **Why does a programmer need to use high-level programming languages instead of writing directly in machine language?**

**Put (√) mark in front of the correct statement and (×) mark in front of the wrong statement:**

3. **Spreadsheet programs are classified as application software that serves specific purposes for the end user. ( )**

**Choose the correct answer:**

4. **The process in which all the code instructions are translated at once before running is called the process of:**

   **A) Secondary storage**

   **B) Compilation**

   **C) Direct input**

   **D) Digital output**