



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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Seventh Week

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Weekly Assessment:

First test

- 1. In the image digitization process, what is the unit, expressed in (dpi), that determines the image's resolution and clarity during sampling?**
 - a. Encoding**
 - b. Quantization**
 - c. Resolution**
 - d. The Pixel**
- 2. In usability techniques, what is the experience or emotional effect users get from interacting with a product or service?**
 - a. User Interface (UI)**
 - b. Graphical User Interface (GUI)**
 - c. User Experience (UX)**
 - d. Affordance**
- 3. What is the main disadvantage of the Bitmap format compared to the Vector format?**
 - a. It reduces the number of pixels in the image.**
 - b. It only allows for representing text and shapes.**
 - c. It causes symbols to appear unreadable when printed.**
 - d. Jaggies appear when the image is enlarged.**
- 4. According to the LATCH principle, which type of classification is based on the sequence of events over time?**
 - a. Location**
 - b. Alphabet**
 - c. Time**
 - d. Category**

Second test

- 1. What is the term that refers to visually representing data to make it more understandable, with examples including tables, charts, etc.?**
 - a. Abstraction**
 - b. Pictogram**
 - c. Structuring**
 - d. Visualization**
- 2. In the 24-bit full color system, what is the number of color levels that can be represented for a single primary color (like Red)?**
 - a. 8 levels**
 - b. 24 levels**
 - c. 256 levels**
 - d. 224 levels**
- 3. What is the concept that refers to how easily data and services can be accessed by a wide range of people, including those with special needs?**
 - a. Affordance**
 - b. Usability**
 - c. Accessibility**
 - d. Universal design**
- 4. What are the three primary colors of light which, when mixed, increase in brightness and approach white?**
 - a. Cyan, Magenta, and Yellow**
 - b. Red, Green, and Blue**
 - c. Violet, Yellow, and Black**
 - d. White, Gray, and Black**

Third test

1. The smallest unit that defines the shape of a digital image, where the image is represented by its arrangement, is:
 - a. Resolution unit (dpi)
 - b. The Pixel
 - c. Sampling
 - d. Encoding
2. What is the interface where icons and buttons are used in an easy-to-understand way to exchange information between humans and devices?
 - a. Command Line Interface (CUI)
 - b. User Interface (UI)
 - c. Graphical User Interface (GUI)
 - d. User Experience (UX)
3. If the image size in pixels is X pixels (vertical) $\times$ Y pixels (horizontal), and each pixel is represented by Z bits, what is the correct equation that represents the data size (in bits)?
 - a. $X \times Y$
 - b. $X \times Y \times Z$
 - c. $Z + (X \times Y)$
 - d. $X \times Y \times \{\text{Number of primary colors}\}$
4. According to the LATCH principle, which type of classification is based on the differences between things and is used as an axis to distinguish domains?
 - a. Location
 - b. Alphabet
 - c. Time
 - d. Category