

- 1. Full answer with explanations:** The International Standard Book Number (ISBN) "330247204X" is typically treated as a text. Therefore, the most appropriate data type for the ISBN would be a string. In many programming languages, this is denoted by "str" or "String."
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- 2. Full answer with explanations: (a)** A volatile internal memory that stores the current instruction: RAM (Random Access Memory) RAM is a type of volatile memory used to store the currently executing program and data that is being actively used by a computer.
- Full answer with explanations: (b)** Motherboard The motherboard is the main circuit board in a computer that holds the CPU, memory, and other essential components.
- Full answer with explanations: (c)** Graphics Card (or GPU Graphics Processing Unit) A graphics card is responsible for rendering images and videos and controlling the output to a monitor.
- Full answer with explanations: (d)** Network Interface Card (NIC) A NIC is a hardware component that allows a computer to connect to a network, either wired or wirelessly.
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- 3. Full answer with explanations:** the headteacher can use USB and Wi-Fi as communication methods to upload photographs onto the school network: **1. USB Drive:** The headteacher can save the photographs onto a USB flash drive and physically connect the USB drive to a computer on the school network. Then, she can copy the photographs from the USB drive to the desired location on the network. **2. Wi-Fi Transfer:** If the storage device (e.g., a smartphone or tablet) containing the photographs supports Wi-Fi transfer, the headteacher can connect the device to the school's Wi-Fi network. Using wireless communication, she can transfer the photographs directly from the device to a designated folder on the school network. This method might involve using specialized apps or built-in Wi-Fi file sharing features.
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- 4. Full answer with explanations: (a)** A web browser serves multiple purposes in the context of retrieving, interpreting, and presenting information on the World Wide Web. It follows a sequence of actions to fulfill these functions: **1. Retrieves code from the server:** The web browser initiates communication with a web server, requesting the necessary code and resources to display a particular web page. **2. Download information resources:** Once the server responds, the browser downloads the required information resources, such as HTML, CSS, JavaScript files, images, and other elements, from the server to the user's device. **3. Interprets the code as a web page:** The browser interprets the received code, understanding the HTML structure, applying styles with CSS, and executing any embedded scripts, typically written in JavaScript. **4. Uses page resources to build a web page:** With the retrieved resources, the browser constructs a representation of the web page, incorporating text, images, multimedia, and other elements according to the instructions in the code. **5. Runs the code:** The browser executes any scripting languages like JavaScript, which may involve dynamic content updates, user interactions, or other client-side functionalities. **6. The web page is displayed:** As the browser processes and renders the code, the web page becomes visible on the user's screen, presenting the content and layout intended by the website's design. **7. Render's web page to view:** The browser renders the web page, ensuring that text, images, and multimedia are displayed in a visually coherent and user-