

1. What is the difference between computer hardware and computer software, and how do they contribute to the field of Computer Science?

**Ans.**

Computer hardware refers to the physical components of a computer system, including the computer case, monitor, keyboard, hard disk drive, motherboard, and more. These are tangible components that you can touch. On the other hand, computer software consists of instructions and documentation that tell a computer how to perform tasks. The software includes applications and the operating system. Together, hardware and software form the foundation of Computer Science. Hardware provides the physical platform, while software provides the functionality and instructions for the computer to execute tasks.

2. How does Computer Science apply to various industries, and why is it considered essential in today's job market?

**Ans.**

Computer Science has wide-ranging applications across industries, including telecom, banking, hospitals, software development, and more. In these sectors, it plays a crucial role in improving efficiency, automating processes, and enabling technological advancements. In the job market, Computer Science is in high demand due to its versatility and relevance in modern society. The paragraph mentions that most job opportunities in Pakistan and internationally are in the field of Computer Science. Forbes magazine even ranks Software Developer as the number one job in the United States. This high demand is because Computer Science professionals are needed to develop and maintain software, manage data, ensure security, and innovate in various technological areas.

3. Why is it important for individuals from diverse fields of study, not just Computer Science students, to have a basic understanding of Computer Science concepts?

**Ans.**

VU APEX CAMPUS	<a href="http://vuapex.com.pk">vuapex.com.pk</a>	<a href="http://vuapex.pk">vuapex.pk</a>
Contact Us:	0322-8877744	

CS101 updated VU Midterm Past Paper Long Questions From 2020 to date
Created by APEX Team

the importance of studying basic Computer Science concepts for individuals in diverse fields of study, including business, engineering, and sciences. This is because Computer Science concepts are fundamental in today's digital world. Understanding these concepts helps individuals leverage technology to improve their work, regardless of their field. For example, business professionals may need data analysis skills, engineers may need to program embedded systems, and scientists may require computational modeling. In essence, Computer Science knowledge is essential for problem-solving and innovation in nearly every profession, making it a valuable skill for individuals in various fields.

APEX CAMPUS

VU APEX CAMPUS	<a href="http://vuapex.com.pk">vuapex.com.pk</a>	<a href="http://vuapex.pk">vuapex.pk</a>
Contact Us:	0322-8877744	