

## CS-101 - Virtual University CS-504 Short Question Preparation

Q1. What is “My Personal Agent”?

**Ans 1:** A computer program that works automatically and has a voice interface.

Q2. What is the difference between Design and System Architecture?

**Ans 1:** Only the higher level designs are called System Architecture and lower level designs cannot be called system Architecture, and we can also say that every Architecture can be called design but every design cannot be called Architecture.

Q3. Differentiate between LAN and WAN with one example of each.

**Ans 1:** LAN is a local area network where as WAN is a wide area network. LAN can be used in specific areas with limited computers where as WAN can be used on computers shared by large distances. For example, LAN can be used on PCs or an organization located in one building but WAN can be used on large scales like banks all over or in any large communication systems.

Q4. What do you mean by FTP or File Transfer Protocol?

**Ans 1:** This protocol is used to upload and download the files on remote computers.

Q5. What is meant by semantic error ?

**Ans 1:** It is an error which a developer encounters when a statement is executed but it was not intended by him (the developer). Such errors are very difficult to locate during testing. Mostly these occur during abnormal circumstances. It may be referred to as the logical error.

Q6. What is the role of usability in the design of a website?

**Ans 1:** On the Web, usability is a necessary condition for survival. If a website is difficult to use, people leave. If the homepage fails to clearly state what a company offers and what users can do on the site, people leave. If users get lost on a website, they leave. If a website's information is hard to read or doesn't answer users' key questions, they leave.

Q7. What is internet?

**Ans 1:** Internet is also called WAN, which means the interconnection of a large number of computer networks and it consists of millions of private, public, academic, business, and government networks of local to global scope that are linked by a broad array of electronic and optical networking technologies.

Q8. What was the obstacle to the construction of analytical engine?

**Ans 1:** Charles Babbage had huge difficulties raising money to fund his research. As a last resort, he designed a clever mathematical scheme along with Ada, the Countess of Lovelace. It was designed to increase their odds while gambling. They bet money on horse races to raise enough money to support their research experiments. Guess what happened at the end? They lost every penny that they had.

Q9. What is the difference between microprocessors and microcontrollers? Give one example of both

**Ans 1:** The microprocessor is electronic equipment which can perform several functions and also processing of data and information present in a computer, while a microcontroller can only perform one function for that its design. Example: Microprocessors \_ Pentium 4, Microcontroller \_ can be a switch inside the washing machine.

Q10. Why is a local variable preferred over a global variable?

**Ans 1:** A global variable has some advantages, but a local variable is preferred due to the following reasons:- When we declare any global variable in a web page, then in case of an error and logic, it's very difficult to see on which line this variable is used and what its value is if we have more than 2000 lines and all the functions in a web page using that global variable. So, global variables can make the logic of a web page difficult to understand. As we know we can use a global variable everywhere, so global variables also make the reuse and maintenance of your code much more complex.