

## CS-101 - Virtual University MTH-101 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 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.

Q3. What is bandwidth?

**Ans 1:** Bandwidth is the capacity of a communication channel for carrying data.

Q4. What is Robotics? How are robots making our daily and industrial life easy?

**Ans 1:** These are the machines which are computer programmed and perform work which was previously done by humans. They can be found in the manufacturing industry, the military, space exploration and medical applications.

Q5. Suppose we have a big project. Draw the hierarchy of the people involved in the project?

**Ans 1:** Please ignore small lines relating to sub-teams and subordinates due to a shortage of time. ABCD etc are connected directly to Team Lead 1, 2 & 3 accordingly.

Q6. Differentiate local and global variables.

**Ans 1:** Local variables are variables that have a limited scope, while global variables have a larger scope. Local variables are not accessed by others, while global variables are accessible to everyone. A local variable is used by a single user, while a global variable can be used by different users at the same time from all around.

Q7. What is ICMP?

**Ans 1:** ICMP is the "Internet Control Message Protocol". ICMP packets are small packets used in local networks and on the Internet, most typically, for network troubleshooting and problem location.

Q8. What are the sub-categories of Artificial Intelligence? Briefly explain any two.

**Ans 1:** 1. Robotics

These are the machines which are computer programmed and perform work which was previously done by humans. They can be found in the manufacturing industry, the military, space exploration and medical applications. 2. Expert Systems These systems are designed to replace an expert. The medical expert system is an example of such system which can replace a Doctor/medical expert

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Q9. What is the difference between 'single-line text input field' and 'password input field' ?

**Ans 1:** A Password Field is good for sensitive information. The only item that is absolutely necessary is the Submit Button. It is a good idea to include a Reset Button for the convenience of the user. A text field gathers information using a single line of text. This field is useful for short answers. The default text field is blank. If you want to specify default text, use the VALUE attribute.

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Q10. Write a JavaScript program having two functions sum and mean.

**Ans 1:** The web page will ask the user to enter five values to be added. After taking input it will calculate the sum and mean of those values by calling sum and mean functions.

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