**CompTIA A+**

To watch the below video, you need to right click on the Hyperlink just below the highlighted task in red color and select the Open Hyperlink option. It will take you to the YouTube where you can watch the concerned video.

You are required to watch the video and answer the Questions asked below.

You need to type answers in the row indicated with “Ans.”

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| **Hands on lab TCP/IP**  <https://drive.google.com/file/d/14GzJEpDeSA22aT3MphHgBRpQDKu0hlCt/view?usp=sharing> | |
| 1 | TCP/IP stands for? |
| Ans. | Transmission Control Protocol/Internet Protocol and is a suite of communication protocols used to interconnect network devices on the internet. |
| 2 | How to set IP address? |
| Ans. | Access the Control Panel. In the Windows search bar, type in “ncpa. . |
| 3 | What is Ip address |
| Ans. | Internet Protocol (IP) address is the unique identifying number assigned to every device connected to the internet. |
| 4 | What is subnet mask? |
| Ans. | subnet mask is a 32-bit address that segregates an IP address into network bits that identify the network and host bits that identify the host device operating on that network |
| 5 | Show with an example which part identifies host and network? |
| Ans. | P will examine this mask to determine the host and network bits in an address. In a Class B IP address, the first two bytes represent the network portion and the last two bytes are the host portion. Therefore, the default mask is 255.255. |
| 6 | What is default gateway address? |
| Ans. | the Command Prompt window, type “ipconfig” and press “Enter/Return” on your keyboard. You will see a lot of information generated in this window. If you scroll up you should see “Default Gateway” with the device's IP address listed to the right of it. |
| 7 | DNS stands for? |
| Ans. | Domain Name System, translates human readable domain names (for example, www.amazon.com) to machine readable IP |
| 8 | What are the private addresses we can use? |
| Ans. | * Class A: 10.0. 0.0 to 10.255. 255.255. |
| 9 | APIPA stands for? |
| Ans. | Automatic Private IP Addressing (APIPA) refers to a feature implemented in the Microsoft Windows operating system that allows devices to automatically assign IP addresses to themselves when they cannot get an IP address from a Dynamic Host Configuration Protocol (DHCP) |
| 10 | What do you mean by APIPA? |
| Ans. | Automatic Private IP Addressing (APIPA) r |
| 11 | IPv4 stands for? |
| Ans. | IPv4 stands for Internet Protocol version 4. |
| 12 | IPv6 stands for? |
| Ans. | IPv6 (Internet Protocol version 6) is the sixth revision to the Internet Protocol and the successor to IPv4. |
| 13 | Is IPv4 a 32bits? |
| Ans. | he IPv4 address is a 32-bit number that uniquely identifies a network interface on a machine. An IPv4 address is typically written in decimal digits, formatted as four 8-bit fields that are separated by periods. |
| 14 | Is IPv6 a 128bits? |
| Ans. | The size of an IPv6 address is 128 bits, compared to 32 bits in IPv4. The address space therefore has |
| 15 | Can we run IPv4 and IPv6 together? |
| Ans. | Dual stack is the most basic and direct strategy to achieve IPv4 and IPv6 coexistence. With this solution, every networking device, including using IPv4 or IPv6 switches, in an ISP's network will be configured with the capabilities to run IPv4 and IPv6 simultaneously. |