Experiment - 2

21) what is MAC adress & how is it related to NIC

A MA ((Media Aces SS control) advess ins a unique identifier which is assigned to an NIC For we a notwork adress in communications within andwork It is called as hardware advesse or physical adverse AMAC advss is a 98 bit dentifier that is typically expressed in hexadecimal for example 100:1A:18:31:40:56

3) what is DNS -> BNS

DNS chomain name system) is a technology used on the internet to franslate domains like "www.google.com! to IP advesses (like 192.108.1.1) which is used by computers to identify each other in a notwork

DNS is assential as it allows to use case to remember domain names instead of IP address.

4) How are notwork types dassified

Network types are classified into:

- LAN CLocal Area Notarov K)

- PAN (Personal Area Network)

- MAN (motropolitian area network)

- WAN (wide area notwork)

of Explain different types of networks

Notwork types are !-(ILAN CLocal Area Network 1: - LAN is a notwork which

connects a small geographical area. Such as home or compos They are typically limited in size ocvices withinLAN are to be connected using Ethermet cables [wifi

(ii) PAN (personal Area Network): - PAN has the smallest notwork of all & has a range of few moters

They are used to connect personal devices such as phone X computers using blue tooth or hotspot

cii) MAN Cometropolition Area Notovici 1:- It's a notwork which covers a larger grea than LAN, typically within a city They can be used to connect multiple LANS indifferent gio Slocations within a city/metro area.

cir war cuide area network): - This notwork covers the brosest area of all typically within between countries & continents. The internet itself is a calleltion of wAN's.

IP advesses (Any 4) 6) Differentiate MAC advecs & MAC advesss IP adresses

- NIC Card's Manutacturer provides MAC adress

- a byte (IPva) or 16 byte (IPV6) - six byte hexadecimaladrers adress.

- used to ensure physicaladras - Used to Is the logical of a computer address of the computer

- operates in data link lax ex - operates in notwork laxer - hardware oriented

- software oriented

- Internet service provider provider IP adrass

