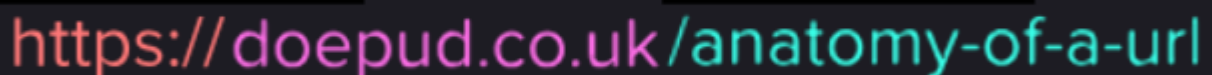1. What is the function of a DNS?
   A) It translates IP addresses into domain names.
   B) It translates domain names into IP addresses.
   C) It encrypts internet traffic for security purposes.
   D) It regulates internet traffic flow.

2. What is the purpose of a DNS server?
   A) To host websites and online resources.
   B) To translate human-friendly domain names into numerical IP addresses.
   C) To encrypt internet traffic for security purposes.
   D) To regulate internet traffic flow.

3. Why is the DNS important for internet users?
   A) It allows users to easily access websites using numerical IP addresses.
   B) It helps ensure the security of online resources.
   C) It makes the internet more user-friendly by allowing easy access to resources using domain names.
   D) It regulates the flow of internet traffic to prevent overloading.

4. Describe how a DNS server works. (2)

5. Explain the role of the DNS in making the internet more user-friendly. (2)

6. Label this URL with the labels provided: path, protocol, domain name

https://doepud.co.uk/anatomy-of-a-url

ANSWERS

1. B The Domain Name Service receives a URL (web address), looks it up and returns the IP address of that domain.

2. B Same question as above but with the answer worded slightly differently

3. C DNS is all about creating a more user-friendly experience for the user

4. Essentially DNS acts like an internet phonebook, translating human-readable domain names into machine-understandable IP addresses, allowing easy web browsing and other online activities. If the first DNS doesn't hold the IP address of the domain that has been requested, it sends the request to other DNS servers. The DNS servers work together to find the IP address. If the IP address cannot be found, an error message will appear.

5. A slightly differently worded question to question 4 but essentially the information is the same. The DNS system means that humans don't have to remember complex IP addresses but can use human-friendly web addresses. This makes the internet more user-friendly as it makes it easier for everyone to use.

6.