

Oxford Revise | OCR Computer Science | Answers

Chapter 11 Standards and protocols

Question	Answer	Extra information	Marks	AO / Specification reference
1	A Domain Name Service is made up of multiple Domain Name Servers. These are used in the process of converting a URL to an IP address.	1 mark for stating that the Domain Name Service is made up of multiple Domain Name Servers. 1 mark for identifying the role of converting URL to IP address.	1 1	AO1 1.3.1
2	<p>One difference from:</p> <p>Mac address is given by the manufacturer and the IP address is given by the Internet Service Provider (ISP)</p> <p>MAC address is a physical address, IP address is a logical address</p> <p>Mac address is for local identification, IP address is for global identification.</p> <p>One similarity from:</p> <p>Both can be used to uniquely identify a device on a network</p> <p>Both can be represented using hexadecimal.</p>	1 mark for a difference and 1 mark for a similarity.	1 1	AO1 1.3.2

Question	Answer	Extra information	Marks	AO / Specification reference
3	Protocols are used to set common standards for communication, to allow different computers, or types of computers, to communicate with each other.	1 mark for stating protocols set common standards for communication and 1 mark for stating they allow different computers or different types of computers to communicate with each other.	1 1	AO1/AO2 1.3.2
4	<p>Protocol 1: POP Description: Used for retrieving emails from an email server and downloading to receiver’s computer.</p> <p>Protocol 2: IMAP Description: Used for retrieving emails, but leaves a copy on the mail server until the recipient deletes it.</p> <p>Protocol 3: SMTP Description: Sends emails from one computer to another.</p>	<p>1 mark for naming the protocol and 1 mark for a correct description of that protocol, for each of the three protocols.</p> <p>The protocols can be listed in any order.</p>	1 1 1 1 1 1	AO1 1.3.2