Chhetri Academy

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GCSE COMPUTER SCIENCE

4.1

Edexcel 1CP2 | Specification point 4.1.6

(Ethernet, Wi-Fi, TCP/IP, HTTP, HTTPS, FTP) and email protocols (POP3, SMTP, IMAP)

Untiered

Past paper question booklet

1	2021	Untiered
question groups	available papers	tier

Before you begin

1. Show working and use units where appropriate.
2. Use extra paper if you need more space.
3. Print at actual size (100%) for measurement questions.

Name _____ **Date** _____

Whole questions are retained for context; some parts cover other points. Legacy sources are labelled.

7 A company moves its business online.

(a) Identify **one** way in which a WAN differs from a LAN.

(1)

- ☒ **A** LANs do not transmit data in packets
- ☒ **B** LANs use fibre optic cables
- ☒ **C** WANs are always connected via gateways
- ☒ **D** WANs are always wireless

(b) An employee accesses her work email using a smartphone and a laptop.

Explain why the IMAP protocol is more suitable for this than the POP3 protocol.

(2)

(c) Describe the role of the transmission control protocol (TCP).

(4)

(d) Describe the role of a server in a client-server network.

(2)

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(e) Draw lines to show how all these devices would be connected using a bus topology.

(2)









(Total for Question 7 = 11 marks)