Chhetri Academy

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GCSE COMPUTER SCIENCE

4.1

Edexcel 1CP2 | Specification point 4.1.3

How the internet is structured (IP addressing, routers)

Untiered

Past paper question booklet

1	2019	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 The internet is the world's largest network.

(a) One function of a router is to forward data packets from one network to another across the internet.

Describe how a router carries out this function.

(2)

(b) Explain why it is important to review network and user policies.

(2)

(c) The transport layer of network protocols splits data into packets before sending it.

Describe the process that ensures the data received matches the original.

(2)

(d) Inclusion is an ethical concern.

A school has decided to allow students to bring their own digital device to use in class.

Assess the impact of the school's decision on its ability to be inclusive.

(4)

(Total for Question 7 = 10 marks)