MODULE E NETWORKS · E9

Protocols: HTTP and HTTPS

Original practice questions · 20 marks · ~25 minutes · Cambridge 0478 syllabus 5.1.3

Name _____ Date _____

Instructions. Answer all questions in the spaces provided. The marks for each part are shown in brackets [ ]. The total for this worksheet is **20 marks**.

1

Total: 2 marks

(a) Give the full name of **HTTPS**. **[1]**

(b) State the purpose of **HTTP**. **[1]**

2

Total: 3 marks

A user opens the home page of a regional library's website, which uses HTTP.

(a) Describe the operation of HTTP when the page is opened. **[3]**

3

Total: 4 marks

(a) Tick (✓) **one** box in each row to show whether each statement is true or false. **[4]**

Statement	True	False
HTTP and HTTPS are both protocols		
Data sent using HTTP is encrypted		
Data sent using HTTPS cannot be intercepted		
HTTPS has the same purpose as HTTP		

4

Total: 4 marks

A community theatre sells tickets on its website. Customers enter their card details to pay. The website currently uses HTTP.

(a) Explain why the theatre should change its website to use HTTPS. **[4]**

5

Total: 5 marks

(a) Identify **two** ways a user can tell, from the web browser, that a web page is using HTTPS. **[2]**

1

2

(b) Tick (✓) the **three** tasks where it is most important that HTTPS is used instead of HTTP. **[3]**

Task	✓
Reading a public page of bus times	
Logging in to an online bank account with a password	
Viewing photos on a public tourist information page	
Paying for a hotel room with a card	
Sending personal medical details to a clinic using a web form	

6

Total: 2 marks

(a) Give **one** similarity and **one** difference between HTTP and HTTPS. **[2]**

Similarity

Difference

Total for this worksheet: 20 marks