OLLSCOIL NA hÉIREANN THE NATIONAL UNIVERSITY OF IRELAND COLÁISTE NA hOLLSCOILE, CORCAIGH UNIVERSITY COLLEGE, CORK

Summer Examinations (Sample)

Computer Science CS2510: Web Servers

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Answer all questions

Paper Total: 80 Marks

Time: 1.5 Hours

1. Internet Infrastructure & Protocols

(a)	Specify the essential principles of the TCP/IP protocol.	[5 Marks]
(b)	What are the strengths and weaknesses of TCP/IP?	[5 Marks]
(c)	How is TCP/IP related to protocols such as SMTP and FTP? .	[5 Marks]
(d)	What are <i>ports</i> in modern computer systems, and how are they implemented?	[5 Marks]

2. Installing Apache

(a)	What methods of installation can be employed for the Apache webserver? What benefit method have?	its does each [5 Marks]
(b)	If you wished to install an experimental Apache webserver alongside a fully funct how would you go about it?	ioning version, [5 Marks]
(c)	How would you check that an installed Apache webserver is properly running?	[5 Marks]
(d)	What function do the <i>httpd.conf</i> and <i>.htaccess</i> files serve? How do they differ? webserver administrators frown on the use of <i>.htaccess</i> files?	Why do some [5 Marks]

3. Configuring Apache

- (a) What different strategies exist for supporting multiple hosts? . [5 Marks]
- (b) Suppose an enterprise wished to have a publically-available website on the internet, with a set of intranet pages available only from within that enterprise. How might this be achieved? [5 Mark]
- (c) How can a webserver be made browser-aware, i.e. be aware of which browser is sending it a request for service?. [5 Marks]
- (d) What is the difference between directives that are *core*, MPM, extension? [5 Marks]

4. Installing from Source

(a)	What are the primary steps involved in installing Apache from source?	.[5 Marks]
(b)	What advantages/disadvantages does this installation method have?	[5 Marks]
(c)	What are the primary steps involved in installing an Apache module?.	[5 Marks]
(d)	What Apache modules would you consider to be necessary in a webserver?	[5 Marks]