

Section II: Short Answers (60 marks total - 2 marks each)

1. What are the different mediums of data signalling?
2. What is the relationship between **access** networks and **long-haul** backbone networks?
3. Why is multi-tasking important in client-server communication?
4. Why are copper cables not used in long-haul backbone networks?
5. What are the components of the **Berkeley Internet Name Domain (BIND)**?

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11. What is **hypertext**?

12. Name 3 HTTP methods.

13. What is a **robot .txt** file?

14. What is the **front-end** of an Internet application?

15. What is a HTTP **cookie**?

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Section I: News (5 marks total - 1 mark each)

The following are excerpts from articles appearing in the IT section of *The Australian* this semester. Read the excerpts and answer the question below each excerpt.

(5 questions. See <http://www.it.murdoch.edu.au/units/b211/labs/gnw.shtml> for example questions)

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6. What are **Low Earth Orbit (LEO)** satellites?

7. What is a satellite **downlink**?

8. Give 2 advantages Digital Subscriber Lines (DSL) have over dial-up modem connection.

9. What is the body responsible for technical developments on the Internet?

10. What is the protocol used by web servers and web clients to transfer messages?

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21. Name 3 server-side programming/scripting technologies besides CGI?

22. What is the relationship between **HTML** and **extensible HTML (XHTML)**?

23. What is the difference between **compiled** and **interpreted** languages?

24. What are **web services**?

25. What is the difference between a Java **applet** and a Java **application**?

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Section III: Long Answers (35 marks total - 5 marks each)

Answer **any** 7 of the following 14 questions. List the 7 questions you selected below:

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16. What is a **search directory**?

17. Name one purpose for a proxy server?

18. What is an **event-handler** in JavaScript?

19. What is **Internationalization (i18n)**?

20. Name 3 categories of physical disabilities which can block a person from accessing the Internet properly.

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26. Why do we call XML a mark-up **meta-language** rather than a mark-up language?

27. Name two protocols used in transferring email between an email client and an email server.

28. What is **Business-to-Business (B2B)** e-commerce?

29. Why is it more secure to use **public-key cryptography** compared to **symmetric cryptography**?

30. What is a **Digital Signature**?

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2. Using a diagram, show how Low Earth Orbit (LEO) satellites can ensure that a ground station is always within coverage.

4. What is the format of a HTTP status line? Explain how a HTTP status code can be used.

1. Explain the roles an operating system have in network communication.

3. Using a diagram, show how the Domain Name System resolves a domain name `www.mysterious.com` typed in by a user in a web browser, but not stored in the browser's local name server.

6. Describe the CGI process. Include in your description how the web browser communicates with the web server, and how the web server communicates with the CGI scripts.

8. Explain how language encodings are specified in HTML documents and HTTP messages.

5. Explain how search engines with spiders build their listings.

7. What are the main benefits and drawbacks the Internet and Information and Communication Technologies (ICTs) offers to human development?

10. What are the main strengths of Java compared to C/C++ and Visual Basic?

12. Explain the operations of one of the following:

- Internet Cache Protocol (ICP)
- Cache Array Routing Protocol (CARP)

9. Why do we need XML when we already have HTML?

11. Using a diagram, show the difference between how client-side languages work, and how server-side languages work.

