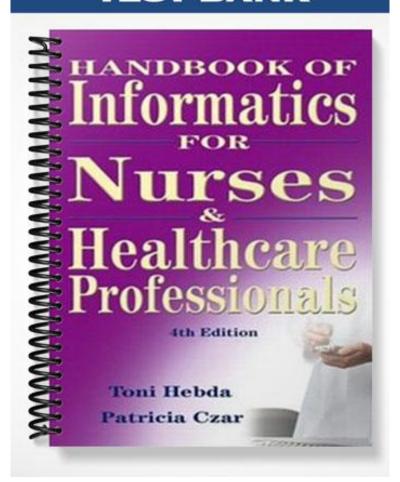
## TEST BANK



|   | that best completes the statement or answers the que     | estion. |  |  |  |  |  |
|---|--|---------|--|--|--|--|--|
| 1) Which statement concerning "thin client te                             | · ·  | 1)      |  |  |  |  |  |
| A) Software exists on the server, so upgr                                 | rades are done in one step for all clients.              |         |  |  |  |  |  |
| B) When implemented, older PCs forme                                      | erly used in networking must be replaced.                |         |  |  |  |  |  |
| C) A thin client consists of a display with                               | h keyboard and requires its own storage device.          |         |  |  |  |  |  |
| D) System processing occurs on both the server and on the local PC.       |  |         |  |  |  |  |  |
| SHORT ANSWER. Write the word or phrase that                               | best completes each statement or answers the question    | on.     |  |  |  |  |  |
| 2) Match the term to the appropriate operatir                             | ng system. 2)  |         |  |  |  |  |  |
| I. Intensive graphics applications are nee                                | eded. A. Linux   |         |  |  |  |  |  |
| <ul><li>II. Diverse commercially available progra<br/>Windows</li></ul>   | ams are needed. B.                                       |         |  |  |  |  |  |
| -   | er is needed to crunch numbers.C. Mac OS                 |         |  |  |  |  |  |
| IV. Lesser known option for PCs is needed                                 | d. D. UNIX   |         |  |  |  |  |  |
| MULTIPLE CHOICE. Choose the one alternative                               | that best completes the statement or answers the que     | estion. |  |  |  |  |  |
| 3) Which health risk related to computer use                              | has been best documented?                                | 3)      |  |  |  |  |  |
| A) Ulnar nerve syndrome   | B) Carpal tunnel syndrome                                |         |  |  |  |  |  |
| C) Cataracts  | D) Miscarriage or sterility                              |         |  |  |  |  |  |
| 4) Healthcare information plans to add super                              | rusers to their staff. Which person is most appropriate? | ? 4)    |  |  |  |  |  |
| A) A clinical nurse specialist for three de                               | epartments, employed at the institution for six years.   |         |  |  |  |  |  |
| B) An informatics nurse specialist with a                                 | a master's degree and informatics certification.         |         |  |  |  |  |  |
| C) An experienced staff nurse who has b                                   | peen employed at the institution for three years.        |         |  |  |  |  |  |
| D) A newly hired charge nurse who has                                     | practiced for ten years in an intensive care unit.       |         |  |  |  |  |  |
| 5) Which example best fits the description of                             | a local area network (LAN)?                              | 5)      |  |  |  |  |  |
| A) Client computers are interconnected                                    | with multiple servers.                                   |         |  |  |  |  |  |
| B) One server communicates with multi                                     | ple PCs and printers.                                    |         |  |  |  |  |  |
| C) Office computers are connected throu                                   | ugh the use of the Internet.                             |         |  |  |  |  |  |
| D) Internet technology is used to commu                                   | unicate with hospital suppliers.                         |         |  |  |  |  |  |
| 6) In which instance is using a wireless device                           | e an advantage for healthcare provider staff?            | 6)      |  |  |  |  |  |
| <ul><li>A) An increase in security is needed to p<br/>Intranet.</li></ul> | prevent physician orders from being intercepted on the   | 2       |  |  |  |  |  |
| B) Error reduction is needed to input da                                  | ta, such as vital signs from a client's isolation room.  |         |  |  |  |  |  |
| <ul><li>C) A larger screen is needed to track dat<br/>signs.</li></ul>    | ta, such as medication administration times with vital   |         |  |  |  |  |  |
| D) More memory is needed to input data                                    | a for glucose monitoring and insulin coverage.           |         |  |  |  |  |  |
| 7) Which of these is the most flexible and reli                           | able secondary storage device?                           | 7)      |  |  |  |  |  |
| A) Magnetic tape drive.   | B) Zip drive.  |         |  |  |  |  |  |
| C) DVD drive.   | D) CD-ROM drive.   |         |  |  |  |  |  |
| 8) Which of these is an advantage in the use of                           | of personal digital assistants (PDAs) in the healthcare  | 8)      |  |  |  |  |  |
| setting?  |  | · —     |  |  |  |  |  |
| A) Data loss is minimized due to long ba                                  | attery life and ease of backups.                         |         |  |  |  |  |  |
| B) PDAs may be synchronized with any software.                            | network without the use of special equipment or          |         |  |  |  |  |  |
|   | be easily stored and compared to actual client data.     |         |  |  |  |  |  |
| וט rDAs minimize the chance of interce                                    | puon oi data transmission.                               |         |  |  |  |  |  |

| 9) Research best supports the use of which     | erganai   | mic device?                                    |           | 9)  |
|--|-----------|--|-----------|-----|
| A) Lumbar back support to maintain r           |           | ·)   |           |     |
| B) Wrist rests to support the wrists wh        |           |  |           |     |
| C) Support brace used while typing to          | _         |  |           |     |
| D) Ergonomic mouse to reduce wrist a           | -         | -  |           |     |
| b) Eigonomic mouse to reduce wrist t           | and num   | a punt.  |           |     |
| 10) Many workstations house clinical inform    | -         | -  |           | 10) |
|  | gram is   | most likely to be used by the healthcare st    | aff       |     |
| providing direct patient care?                 |           |  |           |     |
| A) A programming language such as V            |           |  |           |     |
| B) A programming language such as C            |           |  |           |     |
| C) A virus checker to increase security        |           |  |           |     |
| D) An programming language such as             | s Java to | access the Internet.                           |           |     |
| SHORT ANSWER. Write the word or phrase tha     | at best c | ompletes each statement or answers the         | question. |     |
| 11) Using good ergonomics when one is util     |           | =  | 11)       |     |
| related injuries. List at least three specific | _         | =  | ,         |     |
| reduce the risk of computer-induced inju       | _         | •  |           |     |
|  |           |  |           |     |
| 12) Match the appropriate role to the desired  | d activit | y:   | 12)       |     |
| I. Clinical Information Analyst                | A.        | represents needs of users during               |           |     |
| system   |           | design and implementation.                     |           |     |
| II. Help desk                                  | В.        | serves as a local resource person.             |           |     |
| III. Clinical liaison                          |           | responsible for the successful                 |           |     |
| automation of                                  |           | information management.                        |           |     |
| IV. Superuser                                  | D.        | responsible for educating clinical users.      |           |     |
| V. Trainer                                     |           | first line of user support within an           |           |     |
|  |           | organization.                                  |           |     |
|  |           |  |           |     |
| MULTIPLE CHOICE. Choose the one alternativ     |           |  | ne questi |     |
| 13) Which statement best describes the role of |           |  | _         | 13) |
|  | nformat   | ion security, and overall management of t      | he        |     |
| information system.                            |           |  |           |     |
|  | e, and se | ecurity of materials placed on the Internet,   |           |     |
| intranet, and extranet.                        |           | and the formation of matients. In the classics |           |     |
|  | rsonai n  | ealth information of patients, both electron   | nic and   |     |
| paper.  D) Duties include assigning and moni-  | toring s  | ystem access identification codes and pass     | words     |     |
| b) buttes include assigning and morn           | tornig s  | ystem access identification codes and pass     | words.    |     |
| 14) What is the one byte binary code represe   | entation  | for the Arabic number "8"?                     |           | 14) |
| A) 00001000 B) 1000                            |           | C) 11111111 D) 2222                            |           | /   |
| ,  |           | -,   |           |     |
| SHORT ANSWER. Write the word or phrase tha     | at best c | ompletes each statement or answers the o       | question. |     |
| 15) Match the appropriate computer compo       |           | <del>-</del>                                   | star 15)  |     |
|  |           |  | t-u       |     |
| I. Central Processing Unit (CPU)               | A. disa   | appears when the power is off; provides        | p         |     |
| only   |           |  |           |     |
| II. Arithmetic Logic Unit (ALU)                | tem       | porary storage for the active program,         |           |     |
| as well as                                     |           |  |           |     |
| III. Read-only memory (ROM)                    |           | data that are being processed.                 |           |     |
| IV. Random access memory (RAM)                 | B. rem    | ains when the power is off; contains the       |           |     |

| 16) Mat  | ch the computer type to  | o the desired application:                        |               |                              | 16)         |  |  |
|--|--|---|---------------|------------------------------|-------------|--|--|
| I.   | Supercomputer  | A. used to present a                              | a slide pres  | sentation at a meeting       |             |  |  |
| II.  | Mainframe  | B. translates hand writing into digital text      |               |                              |             |  |  |
| III.   | Minicomputer   | C. used to support research at a large university |               |                              |             |  |  |
| IV.  | Desktop PC   | D. used to control of                             |               |                              |             |  |  |
| V.   | Laptop PC  | E. used as a client of                            |               |                              |             |  |  |
| VI.  | Tablet PC  | F. used to send tex                               |               |                              |             |  |  |
|  | Hybrid   | G. provides corpora                               |               |                              |             |  |  |
| chai   | •  | G. provides corpora                               | ate compu     | ting at a large nospital     |             |  |  |
|  | . Embedded   | H. provides computing at a small hospital         |               |                              |             |  |  |
| V 111  | . Embedded   | 11. provides compu                                | tilig at a si | nan nospitai                 |             |  |  |
|  |  |   | _             | the statement or answers the | _           |  |  |
|  | 9  | t describes RAID technolo                         | ~             |                              | 17)         |  |  |
|  | -  | se a primary data storage o                       |               |                              |             |  |  |
|  |  | n using one large disk driv                       |               |                              |             |  |  |
|  | _  | own when a single disk fa                         | ails.         |                              |             |  |  |
| D  | ) Duplicate disks mirro  | r copies of data.                                 |               |                              |             |  |  |
| ORT ANS  | WER. Write the word  | or phrase that best comp                          | letes each    | statement or answers the q   | uestion.    |  |  |
|  |  | quirements to consider wh                         |               | _                            | 18)         |  |  |
|  | related hardware:  | 1   |               |                              | ,           |  |  |
| 19) Mat  | 19) Match the software category or type to the correct function: 19) |   |               |                              |             |  |  |
| I.   | Ouery or search a datal  | base for specific information                     | on A.         | Application                  |             |  |  |
|  | Create and edit docum  | -   | В.            | Programming                  |             |  |  |
|  | guage  | CIUS  | ъ.            | Tiogramming                  |             |  |  |
| -  | Perform system backup  | •   | C.            | Operating system             |             |  |  |
|  |  |   |               | 1 0 1                        |             |  |  |
| 1V.  | Control computer hard  | ware  | D.            | Utility program              |             |  |  |
|  |  |   | ompletes t    | the statement or answers the |             |  |  |
| •  |  | st describes an Intranet?                         |               |                              | 20)         |  |  |
|  | •  | filiated with education and                       | U             | e                            |             |  |  |
|  |  | the hospital system for us                        | •             |                              |             |  |  |
| C  | ) A private hospital sys   | tem that is protected from                        | ı outside a   | ccess.                       |             |  |  |
| D  | ) The largest and best k   | nown electronic network                           | in the wor    | ld.                          |             |  |  |
| 21) The  | instructions for control   | lling a computer during in                        | itial start i | ap are stored in Random Acc  | cess 21)    |  |  |
|  | nory (RAM).  | and a combatter arming in                         |               |                              |             |  |  |
|  | ) True   |   | B) False      |                              |             |  |  |
| 71   | ) Truc   |   | b) Taisc      |                              |             |  |  |
| 22) Blu-   | ray is a high density m  | agnetic disc format rival to                      | o HD-DVI      | Э.                           | 22)         |  |  |
| •  | ) True   | O .   | B) False      |                              | / ===       |  |  |
| 23) Port   | table or lanton compute  | ers can be connected to a n                       | etwork by     | inserting a network interfac | ce 23)      |  |  |
|  |  | provided in the motherboa                         | -             | u network interior           | <b>-</b> 5, |  |  |
|  | -  | •   |               |                              |             |  |  |
| А  | ) True   |   | B) False      |                              |             |  |  |
| 24) When discussing client/server technology the names "thin client" and "fat client" refer to |  |   |               | 24)                          |             |  |  |
|  | dware requirements.  | 0,  |               |                              | ,           |  |  |

A) True B) False

25) A mobile device can be a specialized computer workstation on a cart.

A) True B) False

25) \_\_\_\_\_

- 1) A 2) C, B, D, A 3) B 4) C 5) B 6) B
- 7) C
- 8) C 9) A
- 10) C
- 11) Answers should include at least 3 examples of ways to avoid eyestrain, repetitive stress injuries, and fatigue. Specifics: take frequent breaks; use comfortable chairs with lumbar support, reclined posture of 100 to 110 degrees; use good posture to reduce physical strain; correctly position monitors just below eye level approximately one arm's length away and 20-40 degrees below the line of sight; adjust screen resolution, font size and brightness as needed, since sharp screen images help reduce eye strain; periodically look away from monitor to distant objects to help avoid eye-focusing problems; position keyboard so wrists are flat and elbow angle is 90 degrees or more to prevent nerve compression; choose sturdy surfaces or furniture with sufficient workspace; intersperse computer work with other activities to avoid repetitive stress injuries; avoid noisy locations as noise is distracting and stressful; locate in a well-ventilated area, as fresh air and a comfortable temperature enhance working conditions; use ergonomic devices with caution, using those that are researched.

(Reference: textbook Box 2-2 Measures to Ensure Good Ergonomics When Using a Computer-Work Station.)

- 12) C, E, A, B, D
- 13) C
- 14) A
- 15) D, C, B, A
- 16) C, G, H, E, A, B, F, D
- 17) D
- 18) Answer should include at least four of the following: application needs, program execution speed, number of users during peak usage periods, storage capacity, backup options, budget considerations, and maintenance.
- 19) B, A, D, C
- 20) C
- 21) B
- 22) B
- 23) B
- 24) A
- 25) A