Computer Hardware - Section 1

1. From what location are the 1st computer instructions available on boot up?
   - A. ROM BIOS
   - B. CPU
   - C. boot.ini
   - D. CONFIG.SYS
   - E. None of the above

2. What could cause a fixed disk error?
   - A. No-CD installed
   - B. bad ram
   - C. slow processor
   - D. Incorrect CMOS settings
   - E. None of the above

3. Missing slot covers on a computer can cause?
   - A. over heat
   - B. power surges
   - C. EMI.
   - D. incomplete path for ESD
   - E. None of the above

4. When installing PCI NICS you can check the IRQ availability by looking at
   - A. dip switches
   - B. CONFIG.SYS
   - C. jumper settings
   - D. motherboard BIOS
   - E. None of the above

5. With respect to a network interface card, the term 10/100 refers to
   - A. protocol speed
   - B. a fiber speed

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C. megabits per seconds

D. minimum and maximum server speed

E. None of the above

Operating Systems Concepts - Section 1

The part of machine level instruction, which tells the central processor what has to be done, is

A. Operation code

B. Address

C. Locator

D. Flip-Flop

E. None of the above

2. Which of the following refers to the associative memory?

A. the address of the data is generated by the CPU

B. the address of the data is supplied by the users

C. there is no need for an address i.e. the data is used as an address

D. the data are accessed sequentially

E. None of the above

3. To avoid the race condition, the number of processes that may be simultaneously inside their critical section is

A. 8

B. 1

C. 16

D. 0

E. None of the above

4. A system program that combines the separately compiled modules of a program into a form suitable for execution

A. assembler

B. linking loader

C. cross compiler

D. load and go

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E. None of the above

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5. Process is
   A. program in High level language kept on disk
   B. contents of main memory
   C. a program in execution
   D. a job in secondary memory
   E. None of the above

Disk Operating System (DOS) - Section 1

Which command of MS-DOS is used to copy only files that have been modified on or after the date you specify?

A. XCOPY/D : date

B. COPY/D : date

C. COPY/M

D. XCOPY/V

E. None of the above

---

2. Which DOS command will format a floppy disk and transfer the system files
   A. SYS C: A:
   B. SYS A:
   C. FORMAT A: /S
   D. FORMAT A: /T
   E. None of the above

---

3. While working with MS-DOS, which command is used to restore files that were backed up using the BACKUP command?
   A. COPY
   B. DISKCOPY
   C. RESTORE
   D. STORE
   E. None of the above

---

4. The term TSR is an abbreviation for:

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A. Terminate Stay Ready

B. Testing System Read

C. Terminal Still Ready

D. Terminate Stay Resident

E. None of the above

---

5. Using the _____ switch causes FDISK to display the partition status of your hard disk without executing FDISK.

A. /show

B. /display

C. /status

D. /part

E. None of the above

Networking - Section 1

. How many digits of the DNIC (Data Network Identification Code) identify the country?

A. first three

B. first four

C. first five

D. first six

E. None of the above

---

2. A station in a network forwards incoming packets by placing them on its shortest output queue. What routing algorithm is being used?

A. hot potato routing

B. flooding

C. static routing

D. delta routing

E. None of the above

---

3. The probability that a single bit will be in error on a typical public telephone line using 4800 bps modem is 10 to the power -3. If no error detection mechanism is used, the residual error rate for a communication line using 9-bit frames is approximately equal to

A. 0.003

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B. 0.009

C. 0.991

D. 0.999

E. None of the above

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4. Frames from one LAN can be transmitted to another LAN via the device

A. Router

B. Bridge

C. Repeater

D. Modem

---

5. Which of the following condition is used to transmit two packets over a medium at the same time?

A. Contention

B. Collision

C. Synchronous

D. Asynchronous

E. None of the above

Artificial Intelligence - Section 1

What is the term used for describing the judgmental or common-sense part of problem solving?

A. Heuristic

B. Critical

C. Value based

D. Analytical

E. None of the above

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2. What stage of the manufacturing process has been described as "the mapping of function onto form"?

A. Design

B. Distribution

C. project management

D. field service

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E. None of the above

---

3. Which kind of planning consists of successive representations of different levels of a plan?
   A. hierarchical planning
   B. non-hierarchical planning
   C. All of the above
   D. project planning
   E. None of the above

---

4. What was originally called the "imitation game" by its creator?
   A. The Turing Test
   B. LISP
   C. The Logic Theorist
   D. Cybernetics
   E. None of the above

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5. Decision support programs are designed to help managers make:
   A. budget projections
   B. visual presentations
   C. business decisions
   D. vacation schedules
   E. None of the above

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