Exam Sample Questions

1. Which of the following is *not* a valid escape sequence?

(a) \n
(b) \\
(c) \~
(d) \"

ANS: (c)

2. Consider the following *correct* segment of a *correct* C program:

```
p = 2;
while (p < 2000) {
    p = 2 * p;
}
```

What is the value of p *after* this while loop completes its execution?

a) 1023
b) 1024
c) 2047
d) 2048

ANS: (d)

3. What is produced by a `for` statement with a correct body and with the following header

```
for (i = 20; i >= 2; i += 2)
```

a) a syntax error
b) a divide-by-zero error
c) an infinite loop
d) the even values of `i` from `20` down to 2.

ANS: (c)

4. Which is *not* an ANSI standard library function?

a) `printf`
b) `main`
c) `scanf`
d) `pow`

ANS: (b)

5. Advantages of `typedef` do *not* include

(a) making programs more portable by allowing data types to be easily changed to meet system specifications.
(b) making type names shorter.
(c) making programs more readable.
(d) increasing the efficiency of accessing `struct` member variables.

ANS: (d)