

# CPSC 231 Midterm Review: Fall 2007

1. Which of the following UNIX commands could be used to move to another directory?
  - a. cd
  - b. mv
  - c. move
  - d. cp
  - e. passwd
2. Which of the following are examples of solid state storage devices?
  - a. Hard drive
  - b. RAM
  - c. Zip disk
  - d. DVD drive
  - e. None of the above
3. Which of the following is a correct ranking the following from smallest to largest units of storage (for the word size use a modern desktop computer)?
  - a. Byte, bit, word
  - b. Bit, byte, word
  - c. Word, bit, byte
  - d. Word, byte, bit
  - e. None of the above
4. What is the octal equivalent of the decimal number: 67.5?
  - a. 43.8
  - b. 67.5
  - c. 103.4
  - d. 103.5
  - e. 120.5
5. What is the output of the following program?

```
program intro (output);  
begin  
  var ch : char;  
  ch := 'a';  
  writeln(ch);  
end.
```

- a. a
- b. 'a'
- c. ch
- d. The output of the program cannot be determined.
- e. This program will not compile.

6. What will be the output of the following program? (<SP> is used to show a space)

```
program intro (output);
begin
  write('hel':3);
  writeln('@':3);
end.
```

- a. hel@
- b. 'hel':3 '@':3
- c. hel<SP><SP>@
- d. <SP><SP>hel@
- e. hel@<SP><SP>

7.

```
program decision1 (output);
begin
  var num : integer;
  num := 28;
  if (num > 0) then
    write('1')
  else if (num > 10) then
    write('2')
  else if (num > 100) then
    write('3')
  else
    write('4')
  writeln('All done!');
end.
```

- a. 1All done!
- b. 2All done!
- c. 4All done!
- d. 12All done!
- e. None of the above

8.

```
program decision2 (output);
begin
  var num1 : integer;
  var num2 : integer;

  num1 := 1;
  num2 := -10;

  if (num1 > 0) OR (num2 > 0) then
    write('1')
  else
    write('2');
  writeln('All done!');
end.
```

- a. 1
- b. 2
- c. All done!
- d. 1All done!
- e. 2All done!

9.

```
program decision3 (output);
const
  FIXED = 28;
begin
  var num : integer;
  num := FIXED;
  if (num < 0) then
    write('1');
    write('2');
  if (num > 0) then
    write('3');
  if (num >= FIXED) then
    write('4')
  else
    write('5');
end.
```

- a. 3
- b. 134
- c. 234
- d. 235
- e. 1234

10. How many times will the loop in the following program execute?

```
program loop (output);
begin
  var i : integer;
  i := 10;
  while (i < 4) do
  begin
    write(i);
    i := i + 1;
  end;
end.
```

- a. 1
- b. 9
- c. 10
- d. The loop will never execute
- e. None of the above

In the space provided below trace the output of the following program.

```
program practiceFun (output);

var
  var1 : integer;
  var2 : integer;

procedure proc (  var3 : integer;
                  var var4 : integer);
var
  var2 : integer;
begin
  var2 := 10;
  var3 := 20;
  var4 := 30;
  writeln('3:', var2);
  writeln('4:', var3);
  writeln('5:', var4);
end;

function fun (var2 : integer):integer;
begin
  fun := var2 + 1;
end;

begin
  var var2 : integer;

  var1 := 1;
  var2 := 2;
  writeln('1:', var1);
  writeln('2:', var2);
  proc(var1, var2);
  writeln('6:', var1);
  writeln('7:', var2);

  begin
    var var2 : integer;

    var2 := 0;
    var2 := fun(var2);
    writeln('8:', var1);
    writeln('9:', var2);
  end;

  writeln('10:', var1);
  writeln('11:', var2);
end.
```

JT: Liked the practice exam, then you'll love the real thing!



