

CPSC 231, Midterm Review: Winter 2005

Multiple choice

1. Which of the follow alternatives correctly describes the Turing test?
 - a. Because is important to consider the human and the technological perspective when developing software, the Turing test requires that the software developer tests the program at the users actual place of usage.
 - b. A computer program asks a test participant a series of questions, if the questions are deemed as appropriate then an artificial intelligence has been created.
 - c. A test participant asks another person a series of questions in order to determine how people solve problems (thus employing the top down approach for creating an artificial intelligence).
 - d. A test participant anonymously asks another person and a computer program a series of questions. Based on the answers received, if the test participant cannot tell the difference between the person and the program then an artificial intelligence has been created.
 - e. None of the above.
2. What would be a reasonable amount of hard drive space that you would expect for a *new* computer today?
 - a. 1 Kilobyte
 - b. 1 Megabyte
 - c. 120 Megabytes
 - d. 80 Gigabytes
 - e. 100 Terabytes
3. What is the octal equivalent of the binary value 1000?
 - a. 8
 - b. 10
 - c. 1000
 - d. 1010
 - e. None of the above are true
4. What will be the output of the following program if the user types in “12.3” when the program is run?

```
program input1 (input, output);
begin
  var num : integer;
  write('Enter an integer :');
  readln(num);
  write(num);
end.
```

- a. 1
- b. 12
- c. 12.3
- d. An error message will be displayed
- e. None of the above

5. What will be the output of the following program?

```
program decision1 (output);
begin
  var x : integer;
  x := 1;
  if (x < 1) then
    write('x under 1;');
  if (x < 2) then
    write('x under 2;');
  if (x < 3) then
    write('x under 3;');
  if (x < 4) then
    write('x under 4;');
end.
```

- a. x under 1
- b. x under 2
- c. x under 2;x under 3;x under 4;
- d. x under 1; x under 2;x under 3;x under 4;
- e. None of the above

6. How many times will the following loop execute?

```
program loop1 (output);
begin
  var i : integer;
  for i := 1 to -1 do
    writeln(i);
end.
```

- a. 0
- b. 1
- c. 3
- d. It is an infinite loop.
- e. None of above