- [ ] 3.1.11 Section Review, Questions 1, 2, 3, 4

1. Using the value –35, write it as an integer literal in decimal, hexadecimal, octal, and binary formats that are consistent with MASM syntax.

2. *(Yes/No):* Is A5h a valid hexadecimal literal?

3. *(Yes/No):* Does the multiplication operator (\*) have a higher precedence than the division operator (/) in integer expressions?

4. Create a single integer expression that uses all the operators from Section 3.1.2. Calculate the value of the expression.

- [ ] 3.2.4 Section Review, Questions 4, 5

4. In the AddTwo program, which register holds the sum?

The eax register.

5. In the AddTwo program, which statement halts the program?

Either the ExitProcess or the end.

- [ ] 3.3.3 Section Review, Questions 1, 2, 3, 4

1. What types of files are produced by the assembler?

2. *(True/False):* The linker extracts assembled procedures from the link library and inserts them in the executable program.

3. *(True/False):* When a program’s source code is modified, it must be assembled and linked again before it can be executed with the changes.

4. Which operating system component reads and executes programs?

- [ ] 3.4.13 Section Review, Questions 1, 2, 3, 4, 5

1. Create an uninitialized data declaration for a 16-bit signed integer.

2. Create an uninitialized data declaration for an 8-bit unsigned integer.

3. Create an uninitialized data declaration for an 8-bit signed integer.

4. Create an uninitialized data declaration for a 64-bit integer.

5. Which data type can hold a 32-bit signed integer?

- [ ] 3.5.5 Section Review Question 3

3. Write a statement that causes the assembler to calculate the number of bytes in the following array, and assign the value to a symbolic constant named **ArraySize**:

myArray WORD 20 DUP(?)

- [ ] 3.9.1 Short Answer, Questions 4, 5, 6, 25

4. Explain why the term *assembler language* is not quite correct.

5. Explain the difference between big endian and little endian. Also, look up the origins of this term on the Web.

6. Why might you use a symbolic constant rather than an integer literal in your code?

25. Which data directive creates a 32-bit signed integer variable?

- [ ] 3.9.2 Algorithm Workbench, Questions 4, 7, 13

4. Find out if you can declare a variable of type DWORD and assign it a negative value. What does this tell you about the assembler’s type checking?

7. Declare an array of 120 uninitialized unsigned doubleword values.

13. Declare a string variable containing the word “TEST” repeated 500 times.

- [ ] 3.10 Programming Exercises, Pick any 1 exercise