



## Program 1 (100 pts.)

### CMPS 280 – ALGORITHM DESIGN AND IMPLEMENTATION II CS/IT Department, College of Science and Technology

**Instructor:** Ihssan Alkadi, Ph.D., Visiting Assistant Professor

**Due: January 31st, 2016 (12:00 am) (Moodle upload only no email)**

Your DMV office has requested you to develop a java program to grade the written portion of the Driver's license application test. Each test has 15 questions. Here are the answers:

A	D	C	A
A	D	B	A
C	A	D	C
B	A	B	

Applicants can only pass if they answer at least 80% of the 15 questions (12 or more).

Write a class named *DriverTest\_2016* that holds the correct answers in a one dimensional array. You have to have these methods names:

***Passed*** (returns Boolean value (true = passed, false = failed))

***total\_correct\_answers*** (returns number of correctly answered questions)

***total\_incorrect\_answers*** (returns number of incorrectly answered questions)

***which\_questions\_missed*** (int array of the question numbers the students missed)

You have to have Input validation (i.e., only letters A, B, C, D as answers accepted)

➡ Save program name as prog1\_280.java

➡ Only upload the .java file not the .class

50%	Program correctness
20%	Software design
10%	Programming style
10%	Testing
10%	Documentation

**Good luck and have fun. Remember, "The ocean is yours, swim until you get tired, tread water for a while, and then swim again" ~ words of Dr. Ihssan Alkadi. You must always go after the information.**