Date: _____ **Instructor:** ERIC WOLGEMUTH

Student Name/ID#: _____

Total Score: **/ 15**

GIG HARBOR HIGH SCHOOL - PHYSICS S2: 2(A), 3(A), 5(A)

Terms, Formulae & Units Of Measure

INSTRUCTIONS: Impulse and Momentum pretty much *demand* that you understand the units of measure and formulae. Let's see how you're doing with those.

QUESTION 1 /1

Momentum is the same as kinetic energy

A ◯ True

B ◯ False

QUESTION 2 /1

Please type in the equation that BEST represents the Law of Conservation of Momentum (Hint: You MUST use subscripts/superscripts. That means you cannot use the ^ key)

QUESTION 3

/1

The unit(s) of measure for momentum is/are: [ ]

1 p | 2 mv | 3 J | 4 kg m/s

QUESTION 4

/1

The unit(s) of measure for impulse is/are: [ ]

1 p | 2 mv | 3 J | 4 kg m/s

QUESTION 5

/1

Impulse and momentum are EXACTLY the same thing.

A ◯ True

B ◯ False

QUESTION 6

/1

The symbol that we use to represent momentum is: _____

1	p	2	mv	3	J	4	kg m/s

QUESTION 7

/1

The symbol that we use to represent impulse is: [ ]

1	p	2	mv	3	J	4	kg m/s

QUESTION 8

[ ] /1

Which of the following is NOT a formula that we can use to calculate impulse: [ ]

1	mv	2	F	3		4	$p_f - p_i$

QUESTION 9

[ ] /1

Let's say it takes some sort of super-being .100 seconds to bring some object to a stop by exerting 1.00×10^6 N of force on that object. How much time would it take a dog exerting 10.0 N of force to bring that same object to a stop? [ ]

1	1.00×10^2 seconds	2	1.00×10^3 seconds	3	1.00×10^4 seconds	4	1.00×10^5 seconds

QUESTION 10

[ ] /1

When two objects collide and rebound *without* a loss of kinetic energy we say that collision is:

1 [ ]

Choose one option for each blank section

1	inelastic
1	elastic
1	perfectly elastic
1	perfectly inelastic

QUESTION 11

/1

Which of the following is NOT a formula that we can use to calculate impulse:

1 F | 2 | 3 | 4 f=ma

QUESTION 12

/1

Impulse and momentum have EXACTLY the same units of measure.

A True

B False

QUESTION 13

/1

When two objects collide and stick together with a loss of kinetic energy we say that collision is:

1 [ ]

Choose one option for each blank section

1 inelastic

1 elastic

1 perfectly elastic

1 perfectly inelastic

QUESTION 14

[ ] /2

A fly smacks into the windshield of a fully loaded school bus. Please type in ONLY THE FINAL portion of the equation that represents such a collision if kinetic energy is lost in that collision. (Hint: You MUST use subscripts/superscripts. That means you cannot use the ^ key)
