## **BIOLOGY 40A PLACEMENT SAMPLE QUESTIONS**

1.	You need to know	what 25%	of 275 is.	Which	of the	following	equations	will	give
	you that information								

- a. 25 x 275
- b. .25 x 275
- c. 25 x27.5
- d. 275 / 25

2.	Magnesium l	has an a	atomic	number	of 12.	How	many	electrons	are in	the o	uter	shell	of
	Mg++?												

- a. 2
- b. 4
- c. 8
- d. 10

3. A molecule from which 2 hydrogen atoms have been removed has been

- a. hydrolyzed
- b. ionized
- c. oxidized
- d. reduced

4. One liter contains approximately the same volume as one:

- a. cup
- b. gallon
- c. pint
- d. quart

5. In the following oxidation-reduction reaction  $-2FeCl_2 + Cl_2 = 2FeCl_3 - Iron$  (Fe) is

- a. oxidized
- b. reduced
- 6. In simple diffusion
  - a. the movement of the molecules is controlled by temperature and pressure
  - b. the direction of movement is random
  - c. the movement of molecules of one substance is independent of the movement of any other substance
  - d. the net movement is away from the region of highest concentration
  - e. all of the above

## Answers:

- 1. b 4. d
- 2. a 5. a
- 3. c 6. e