MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. Please mark your answer in the space provided.

1) _______Upon entering the bloodstream, heroin is almost immediately metabolized into:

2) _______The DOT set the maximum allowable blood alcohol concentration for commercial truck and bus drivers at:
A) .04%. B) .02%. C) .08%. D) .05%.

3) _______Carbon monoxide is toxic because it:
A) causes platelets to clump. B) destroys red blood cells. C) combines with hemoglobin to form carboxyhemoglobin. D) activates killer white blood cells.

4) _______To analyze blood for alcohol, forensic labs normally use:
A) PCR. B) GC. C) GM/MS. D) TLC.

5) _______There is a(n) ________ relationship between the amount of alcohol in the blood and that in the alveolar breath.
A) indirect B) direct C) variable

6) _______Which is NOT a factor in determining the rate at which alcohol is absorbed into the bloodstream?
A) the amount consumed B) the alcoholic content of the beverage C) the presence or absence of food in the stomach D) all of the above

7) _______Which of the following, if blood is not available, can the medical examiner NOT use in order to determine the body’s alcohol content to a reasonable degree of accuracy?
A) urine B) vitreous humor C) cerebrospinal fluid D) brain tissue

8) _______A breath test reflects the alcohol concentration in the:
A) pulmonary vein. B) left ventricle. C) pulmonary artery. D) aorta.

9) _______Which is NOT a widely used screening tool in the toxicology lab?
A) GC/MS  B) immunoassay  C) TLC  D) GC

10) _______The toxicologist's capabilities are NOT directly dependent on the input from the:

11) _______In which instrument is alcohol NOT oxidized to acetic acid as part of the operation of the equipment?
A) Breathalyzer
B) fuel cell (Alco-Sensor IV)
C) infrared breath testing instrument (Intoxilyzer)
D) none of the above

12) _______The concentration of alcohol in an exhaled breath is in direct proportion to that of the blood of the same individual. The ratio of this relationship is closest to:
A) 1:1,000.  B) 1:10.  C) 1:2,000.  D) 1:100.

13) _______Field sobriety tests do NOT include:
A) walk and turn.
B) performance of sit ups.
C) one leg stand.
D) horizontal gaze nystagmus.

14) _______A drug recognition expert (DRE) can:
A) identify street drugs by their appearance.
B) determine whether a person has taken one or more drugs.
C) help a drug user acknowledge his/her habit and suggest ways to become drug-free.
D) advise the toxicologist as to which analytical scheme to use to specifically identify a toxic substance.

15) _______The amount of alcohol absorbed through the stomach walls is ________ the amount of alcohol absorbed through the walls of the small intestine.
A) greater than  B) the same as  C) less than