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

1) ________ Flotation is a method used by scientists to determine the ________ of a particle of glass.
   A) density   B) refractive index   C) weight   D) mass

2) ________ If an object is immersed in a liquid of greater density, it will:
   A) be suspended in the liquid.
   B) sink.
   C) float.

3) ________ What is the main ingredient in ordinary glass?
   A) sand   B) soda (NaCO)   C) metal oxides   D) lime (CaO)

4) ________ A hot-stage microscope and the GRIM 2 are used to determine the ________ of glass fragments.
   A) metallic oxide content   B) relative density   C) temperature   D) refractive index

5) ________ Tempered glass is used in:
   A) windshields in autos manufactured in the United States.
   B) crystal stemware.
   C) the side and rear windows of autos manufactured in the United States.
   D) both B and C

6) ________ Pyrex glass:
   A) is put through an annealing process.
   B) has been tempered.
   C) is laminated.
   D) is made with the addition of boron oxide.

7) ________ When a bullet penetrates a panel of glass, it leaves a crater-shaped hole that
   A) is wider on the exit side.
   B) is wider on the entrance side.
   C) forms randomly and hence the direction of impact cannot be determined by its appearance.

8) ________ The ease with which a child's handwriting can be individualized is ________ the ease with which one can individualize an adult's handwriting.
   A) less than   B) greater than   C) the same as
9) ________ With regard to the constitutionality of obtaining handwriting exemplars, the courts have ruled all of the following EXCEPT:
A) it is not in violation of Fourth Amendment rights.
B) such action does not constitute unreasonable search and seizure of a person.
C) Fifth Amendment privileges apply.
D) handwriting is an identifying physical characteristic.

10) ________ A data bank of ink dye patterns has been established by the U.S. Treasury Department using:
    A) TTI.  B) NAA.  C) HPLC.  D) TLC.

11) ________ Indented writing impressions can be visualized using what device:
    A) electrostatic detection apparatus
    B) gradient contour refractometer
    C) stencil impression visualizer
    D) monochromatic infrared detector

12) ________ You’ve discovered a number of buried bones that you suspect form an ancient burial site. What approach would likely be least helpful in exploring this:
    A) examination of teeth
    B) examination of artifacts present
    C) examination of skulls
    D) radio-carbon dating

13) ________ Which bone is most helpful in determining sex from a human skeletal remain:
    A) femur
    B) tibia
    C) cranium
    D) pelvis

14) ________ When attempting to estimate age of an individual at time of death from skeletal remains, the older the individual the ______________ the uncertainty in age and therefore a ______________ age range must be given.
    A) lesser / lesser
    B) lesser / greater
    C) greater / lesser
    D) greater / greater

15) ________ Which bone is most helpful in determining height from a human skeletal remain.
    A) vertebrae
    B) clavicle
    C) sternum
    D) none of the above