

NAME \_\_\_\_\_

Date \_\_\_\_\_

1. The purpose of a filter lens in a welding helmet is to screen out \_\_\_\_\_ of the damaging light rays.
  - a. 99.9%
  - b. 90%
  - c. 50%
  - d. 25%
  
2. \_\_\_\_\_ is the amount of tint in a filter lens.
  - a. shade
  - b. color
  - c. hue
  - d. light to dark ratio
  
3. The higher the filter lens number, the easier it is to see through the lens.
  - a. True
  - b. False
  
4. A number five lens is darker than a number ten lens.
  - a. True
  - b. False
  
5. ANSI stands for:
  - a. American Notation Standards Institute
  - b. American National Standard Institute.
  - c. American New Standards Institute.
  - d. American National Service Institute.
  
6. Whenever you are in a welding area, you should wear safety glasses with:
  - a. Flash or side shields
  - b. Hardened safety glasses.
  - c. A number twelve lens rating.
  - d. Metal frames and bows.
  
7. In addition to ultraviolet rays, welding also produces:
  - a. infrablue rays.
  - b. ultrared rays.
  - c. Infrared rays.
  - d. Infrared waves.

8. Which of the following types of clothing should not be worn when welding?
  - a. Cotton shirts or pants.
  - b. Synthetic fiber shorts or pants.
  - c. Wool shirts or pants.
  - d. Cotton and wool blend shirts or pants.
  
9. Welders wear ear plugs only to keep flying sparks out of their ears.
  - a. True
  - b. False
  
10. The only reason welders wear leather gloves is to protect their hands from heat and ultraviolet rays.
  - a. True
  - b. False
  
11. Welders are one of the nations most respected and sought after professionals because:
  - a. There is a constant demand for welders.
  - b. Nearly all manufacturing and building industries require welding services.
  - c. They make a very good salary.
  - d. They are able to work both indoors and outdoors.
  
12. \_\_\_\_\_ must be your first concern in any job.
  - a. Salary and benefits.
  - b. Room for advancement.
  - c. Safety.
  - d. Availability of high-tech equipment.
  
13. Many good welders had to retire before they were ready because:
  - a. The job was finished.
  - b. They were injured.
  - c. Their working conditions were dangerous.
  - d. They moved to another country, where welders were less in demand.
  
14. Protection of the \_\_\_\_\_ is the most important concern for any welder.
  - a. eyes
  - b. feet
  - c. hands
  - d. arms and shoulders
  
15. A welder should never look straight at a welding arc without a pair of sunglasses, or similar glasses, which cut out the bright light.
  - a. True
  - b. False

16. The welding arc can be dangerous because it can produce a visible form of light called ultraviolet rays.
  - a. True
  - b. False
  
17. Ultraviolet rays are similar to rays from the sun; however, they will not cause sunburn like rays from the sun do.
  - a. True
  - b. False
  
18. A condition called \_\_\_\_\_ occurs when ultraviolet rays strike the white part of the eye.
  - a. flash burn
  - b. dirt in the eye
  - c. eye burn
  - d. sand in the eye
  
19. If your eyes start to hurt, you should check with experienced welders to find out what home remedies they use and then use the same thing.
  - a. True
  - b. False
  
20. \_\_\_\_\_ degree burns can occur if a welder's skin is exposed to ultraviolet rays.
  - a. First
  - b. Second
  - c. Third
  - d. Fourth

## Answer Key

1. Welders are one of the nations most respected and sought after professionals because:  
**Nearly all manufacturing and building industries require welding services.**
2. \_\_\_\_\_ must be your first concern in any job.  
**Safety**
3. Many good welders had to retire before they were ready because:  
**They were injured.**
4. Protection of the \_\_\_\_\_ is the most important concern for any welder.  
**eyes**
5. A welder should never look straight at a welding arc without a pair of sunglasses, or similar glasses, that cut out the bright light.  
**False**
6. The welding arc can be dangerous because it can produce a visible form of light called ultraviolet rays.  
**False**
7. Ultraviolet rays are similar to rays from the sun; however, they will not cause sunburn like rays from the sun do.  
**False**
8. A condition called \_\_\_\_\_ occurs when ultraviolet rays strike the white part of the eye.  
**flash burn**
9. If your eyes start to hurt, you should check with experienced welders to find out what home remedies they use and then use the same thing.  
**False**
10. \_\_\_\_\_ degree burns can occur if a welder's skin is exposed to ultraviolet rays.  
**Second**
11. The purpose of a filter lens in a welding helmet is to screen out \_\_\_\_\_ of the damaging light rays.  
**90%**

12. \_\_\_\_\_ is the amount of tint in a filter lens.  
***shade***

13. The higher the filter lens number, the easier it is to see through the lens.  
***False***

14. A number five lens is darker than a number ten lens.  
***False***

15. ANSI stands for:  
***American National Standard Institute.***

16. Whenever you are in a welding area, you should wear safety glasses with:  
***Flash or side shields***

17. In addition to ultraviolet rays, welding also produces:  
***Infrared rays.***

18. Which of the following types of clothing should not be worn when welding?  
***Synthetic fiber shorts or pants.***

19. Welders wear ear plugs to keep flying sparks out of their ears.  
***True***

20. The only reason welders wear leather gloves is to protect their hands from heat and ultraviolet rays.  
***False***