**Grade 10- Basic Hand Tools Test**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Section A: True or False- put a t or an f on the blank if the statement is true or false. (10 M)**

1. The speed handle is the fastest hand operated tool for turning sockets. \_\_\_

2. Cheap tools are usually the same quality as expensive tools. \_\_\_

3. Always put tools away in the proper place after using them. \_\_\_

4. Auto techs spend thousands of dollars on tools. \_\_\_

5. Box end wrenches are commonly open on one end. \_\_\_

6. Using the improper size screwdriver may damage the screw head. \_\_\_

7. Extensions may be used between a ratchet and a socket. \_\_\_

8. Often a small carrying tray is part of a mechanic’s tool box. \_\_\_

9. Wrenches and sockets only are measured in metric sizes. \_\_\_

10. Leaving too many drawers open on a tool box at once is dangerous. \_\_\_

11. Usually, the lower section of a tool box holds larger, bulkier tools. \_\_

12. Tools serve as extensions to the human body and increase ability. \_\_\_

13. Snap rings are a type of plier. \_\_

14. An impact wrench might be used to remove stubborn fasteners. \_\_\_

15. Impact air wrenches do not require specialty impact sockets. \_\_\_

16. Imperial tool measurement is given in millimeters. \_\_\_

17. A rubber mallet is a type of hammer \_\_\_

18. A ball peen hammer is commonly used in an auto shop. \_\_\_

19. Chisels can be used to cut off damaged or rusty bolts. \_\_\_

20. Sockets come in four drive sizes and four point types. \_\_\_

**Section Two: Multiple Choice- select the correct answer (15M)**

1. A Philips screwdriver is shaped like a:

 a) Hexagon

 b) Square

c) Star

 d) None of the above

2. A crescent wrench is:

a) Adjustable

 b) Close ended

 c) Non-adjustable

 d) All of the above

3. The most common hammer in a mechanics’ shop is:

 a) Claw hammer

 b) Ball peen hammer

 c) Sledge hammer

 d) Chipping hammer

4. A rubber mallet is a type of:

 a) Hammer

 b) Screw driver

 c) Adjustable wrench

 d) Type of socket

5. Two common wrenches are:

 a) Adjustable & ratchet

 b) Ratchet & chisel

 c) Adjustable & speed bar

 d) Open end and box end

6. Prior to drilling a hole in metal you should use a:

 a) Center punch

 b) Chisel

 c) Hacksaw

 d) Rubber mallet

7. A hacksaw is used to cut:

 a) Wood

 b) Plastic

c) Metal

 d) None of the above

8. Screw drivers are used to:

 a) File rough metal

 b) Tighten and loosen fasteners

 c) Smooth out gasket material

 d) None of the above

9. A wrench that is completely closed on both ends is:

a) Box end wrench

 b) Line wrench

 c) Combination wrench

 d) All of the above

10. Cleaning solvents help remove:

 a) Rust

 b) Grease

 c) Dried oil

 d) All of the above

11. A combination wrench has:

 a) Box and open ends

 b) Just open ends

 c) Just box ends

 d) Neither box nor open ends

12. What are c-clamps used for:

 a) Loosening stuck bolts

 b) Holding work pieces

 c) Removing piston rings

 d) Magnifying hard to see places

13. Two basic sizes are:

 a) Metric and imperial

 b) Metric and standard

 c) Metric and Inches

d) All the above answers are correct

14. Sockets primarily come in these four point types:

 a) 4, 6, 8, and 12 point

 b) 4, 8, 12, and 16 point

 c) 4, 12, 16, and 24 point

 d) 4, 6, 8, and hexagon point.

15. An Allen wrench is shaped like:

 a) A star

 b) A hexagon

 c) A flat blade

 d) A square

**Section Three- Short Answer Section- answer briefly and correctly.**

1. List three tools that might be used to remove bolts and nuts from an engine: (3M)

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2. List three different socket handles. (3M)

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3. A pipe wrench is used to grasp what type of objects? (1M)

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4. Two special types of screwdrivers are: (2M)

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5. Screwdrivers that are used in tight places: (2M)

6. Pliers can be used to: (5M)

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7. An impact driver is used for: (2M)

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8. List three different types of files: (3M)

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9. Chisels and punches can become dangerous if the tops become:

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10. List three different hammer types from our notes: (3M)

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**Section D: Essay Question (20M) Select one (1) topic.**

1. List the five (5) basic hand tools that mechanics might have that you believe are the most important and why.

2. Describe the three must dangerous activities that you can think of related to misuse or misunderstanding of proper tool safety.

3. Why is it important to maintain tools with proper storage, cleaning, and maintenance?

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