

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) After using a vise _____ 1) _____
A) Close the vise jaws
B) Make sure the handle is in the vertical position
C) Both A and B
D) Neither A nor B

2) Which air tool is used to remove rust or gaskets? 2) _____
A) Air sander B) Air drill C) Die grinder D) None of these

3) Most air-operated grease guns operate with how much air pressure? 3) _____
A) 120 psi B) 30 psi C) 90 psi D) None of these

4) Technician A changes air compressor oil as part of routine maintenance. Technician B purges water out of air compressor tanks as part of routine maintenance. Which technician is correct? 4) _____
A) Technician A only B) Technician B only
C) Both technicians A and B D) Neither technician A nor B

5) When mounting an engine to an engine stand, what grade bolt should be used? 5) _____
A) 4 or 7 B) 1 or 4 C) 5 or 8 D) 3 or 5

6) Identify this tool. 6) _____



A) Impact wrench B) Grease gun C) Air ratchet D) Die grinder

7) Which type of trouble light is recommended for use in the shop? 7) _____
A) Incandescent B) Florescent C) LED D) Either B or C

8) Which air impact drive size is the most commonly used? 8) _____
A) 3/4 inch B) 1/2 inch C) 1/4 inch D) 3/8 inch

- 9) Engine stands _____.
- A) Hold the engine block from the sides B) Hold the engine from the rear
C) Either A or B D) Neither A nor B
- 10) A hydraulic press is being used to separate a bearing from a shaft. What should be used to cover the bearing during the pressing operation?
- A) Brake drum B) Paper towel C) Fender cover D) Shop cloth
- 11) Most portable cranes use what type of pressure for lifting heavy loads?
- A) Pneumatic B) Hydraulic C) Both A and B D) Neither A nor B
- 12) Engines are mounted to engine stands _____.
- A) Using bellhousing bolt holes B) Using holes drilled in the engine block
C) Either A or B D) Neither A nor B
- 13) Technician A says that an air-operated grease gun is more expensive than a battery operated grease guns. Technician B says that battery operated grease guns require a supply of compressed air. Which technician is correct?
- A) Technician A only B) Technician B only
C) Both technicians A and B D) Neither technician A nor B
- 14) The stone wheel mounted to a bench grinder can be used for _____.
- A) Cleaning gaskets from surfaces B) Sharpening drill bits and blades
C) Sharpening screwdrivers D) Sharpening bolt heads
- 15) The steel wire wheel on a bench grinder can be used to clean _____.
- A) Aluminum surfaces B) Threads of bolts
C) Both A and B D) Neither A nor B
- 16) What can be used to cover the jaws of a vise to help protect the object being held?
- A) Copper B) Aluminum C) Wood D) All of the above
- 17) When using an engine stand _____.
- A) Cover the engine with plastic when not in use to serve as a shield from moisture and dirt
B) Use standard non graded hardware bolts
C) Both A and B
D) Neither A nor B
- 18) Using compressed air and an air gun, what is the maximum allowable air pressure?
- A) 10 psi B) 30 psi C) 40 psi D) 20 psi
- 19) Proper care of shop equipment includes _____.
- A) Tuning up every six months B) Keeping equipment clean
C) Keeping equipment lubricated D) Both B and C
- 20) When removing a bearing and race from a component _____.
- A) Cover the work while using a press
B) A bearing splitter may be needed to remove the inner race
C) Both A and B
D) Neither A nor B

- 21) What type of socket should be used with an air impact wrench? 21) _____
 A) Black B) Chrome C) 12 point D) Either A or B
- 22) What type light may be used in more difficult to access areas? 22) _____
 A) Incandescent B) LED C) Fluorescent D) None of these
- 23) Air impact wrenches should be used with _____. 23) _____
 A) Chrome sockets B) Dry air C) Either A or B D) Neither A nor B
- 24) The bearings of shop equipment _____. 24) _____
 A) Are often sealed and cannot be lubricated B) Should be lubricated regularly if possible
 C) Either A or B D) Neither A nor B
- 25) Two technicians are discussing the use of a typical bench/pedestal mounted grinder. Technician A says that the wire brush wheel can be used to clean threads. Technician B says that the grinding stone can be used to clean threads. Which technician is correct? 25) _____
 A) Technician A only B) Technician B only
 C) Both technicians A and B D) Neither technician A nor B
- 26) Technician A says that face shields should always be worn when using a bench grinder. Technician B says that face shields are not required when using bench grinders with built-in shields. Which technician is correct? 26) _____
 A) Technician A only B) Technician B only
 C) Both technicians A and B D) Neither technician A nor B
- 27) Which tool is used where there may not be enough room to move a regular wrench? 27) _____
 A) Impact wrench B) Air ratchet C) Both A and B D) Neither A nor B
- 28) Technician A says that incandescent trouble lights may be used when working around gasoline. Technician B says that florescent trouble lights should be used when working around gasoline. Which technician is correct? 28) _____
 A) Technician A only B) Technician B only
 C) Both technicians A and B D) Neither technician A nor B

29) Identify this piece of shop equipment.

29) _____



- A) Hydraulic press
- C) Portable crane

- B) Engine stand
- D) None of these

30) Technician A says that wood can be used with a vise to protect the surfaces of clamped components. Technician B says that 4- and 6-inch vises are the most commonly used. Which technician is correct?

30) _____

- A) Technician A only
- C) Both technicians A and B

- B) Technician B only
- D) Neither technician A nor B