

Q.1939. Manifold Gauges determine where and at what pressure to deliver refrigerant. The valves open and close passageways to the _____.

- A. top port and its service hose
- B. left port and its service hose
- C. right port and its service hose
- D. center port and its service hose

Ans: D

Exp: The valves open and close passageways to the center port and its service hose.

Q. 1940. The low pressure gauge appears on the left in this drawing, and high pressure gauge appears on the right, not all manifold gauge sets will be oriented this way.

- A. Low pressure
- B. Medium pressure
- C. High pressure
- D. normal pressure

Ans: C

Exp: high pressure gauge appears on the right, not all manifold gauge sets will be oriented this way.

Q.1941. when we identify the high and low side of the system by tracing the hose from the condenser back to the compressor. The _____ side of the system.

- A. Compressor connects to the low-pressure
- B. Compressor connects to the normal-pressure
- C. Compressor connects to the high-pressure
- D. Compressor connects to the medium-pressure

Ans: C

Exp: The compressor connects to the high-pressure side of the system.

Q.1942. both _____ systems use connectors of different of different sizes to help prevent connecting the gauges to the wrong sides.

- A. R-12 and R-134a
- B. R-14 and R-134a
- C. R-12 and R-135a
- D. R-12 and R-136a

Ans: A

Exp: Both R-12 and R-134a systems use connectors of different of different sizes to help prevent connecting the gauges to the wrong sides.

Q.1943. the threaded Schrader valve is the most commonly used service Valve, or port, for the R-12 system. _____, metric thread, quick connect service valves.

- A. R-13a systems use larger
- B. R-13a systems use smaller
- C. R-13a systems use weaker
- D. R-13a systems use very small

Ans: A

Exp: the threaded Schrader valve is the most commonly used service Valve, or port, for the R-12 system. R-13a systems use larger, metric thread, quick connect service valves.

Q. 1944. Low pressure gauge connects to the service valve between the _____ suction port. The high pressure gauge connects to the service valve between the compressor and the conductor.

- A. Evaporator and condenser
- B. Evaporator and compressor
- C. Evaporator and orifice

D. Evaporator and transistor

Ans: B

Exp: Low pressure gauge connects to the service valve between the evaporator and compressor suction port.

Q. 1945. The suggestion for using Gauge: _____ before changing them from the service ports and keeping the gauge shutoff valves closed when not in use.

A. opens the shutoff valves

B. change the shutoff valves

C. close the shutoff valves

D. increases the shutoff valves

Ans: C

Exp: The suggestion for using Gauge: close the shutoff valves before changing them from the service ports and keeping the gauge shutoff valves closed when not in use.

Q. 1946. High temperature and moisture _____ you record with the manifold gauge. Pressure on a hot day will be higher than on a cold day.

A. Increases the pressures

B. decreases the pressures

C. Affect the pressures

D. change the pressures

Ans: C

Exp: High temperature and moisture affect the pressures you record with the manifold gauge. Pressure on a hot day will be higher than on a cold day.

Q.1947.Refrigerant can never be released into air, you must use special equipment to recover and store the refrigerant. Recharging station, often called _____.

A. Recycling Station

B. Changing Station

C. Cycling Station

D. charging station

Ans: D

Exp: we use special equipment to recover and store the refrigerant. recharging station, often called charging station.

Q. 1948. The first step in repairing an air conditioning system is to remove the refrigerant from the vehicle and store it in the refrigerant tank. This operation is known as _____.

A. Maintenance

B. Repair

C. Changed

D. Recovery

Ans: D

Exp: The first step in repairing an air conditioning system is to remove the refrigerant from the vehicle and store it in the refrigerant tank. This operation is known as recovery.

Q. 1949. When we talk about orifice tube system, the accumulator may store liquid, which may be _____. The recovery process can be improved by making sure the engine is at normal operating temperature.

A. Easy to recover

B. difficult to recover

C. difficult to change

D. difficult to recharge

Ans: B

Exp: When we talk about orifice tube system, the accumulator may store liquid, which may be difficult to recover.

Q 1950. Using the oxyacetylene welding torch direct the flame to a point where the upper tank and header plate join. Moving all the way around the tank until the cycle is completed in?

- a. Air Pressure
- b. radiator tank
- c. Tapping
- d. Water

Ans: C

Exp: Tapping move all the way around the tank until cycle

Q 1951. In order to _____ the eyes against molten solder and fluxes, goggles or face shields must be worn in.

- a. protect
- b. radiator tank
- c. Tapping Gun
- d. Water Gun

Ans: A

Exp: Protect your Eyes from the fluxes.

Q 1952 _____ glass is a specialized occupation. It should never be attempted by persons who are not familiar with the proper procedure.

- a. vacuum cleaner
- b. radiator tank
- c. Grinding or drilling
- d. Water Gun

Ans: C

Exp: Grinding or drilling glass is proper occupation

Q 1953 when work is being performed on vehicle radiators using the oxyacetylene welding torch as a source of heat, the flame is always adjusted to a carburizing flame is?

- a. Radiator Disassembly
- b. vacuum cleaner

- c. radiator tank
- d. Water Gun

Ans: A

Exp: vehicle radiators using the oxyacetylene welding torch as a source of heat

Q 1954 Light and adjust torch to a carburizing flame. Apply heat to the top radiator tank where the sides members are joined by solder. When the solder melts, move the top of the side member away from the upper tank until the metal cools?

- a. vacuum cleaner
- b. radiator tank
- c. Radiator Disassembly
- d. Side Member Removal

Ans: D

Exp: Side Member Removal move the top of the side member away from upper tank

Q 1955. _____ should be used to remove fragments of broken glass. If a vacuum cleaner is not available, oil soaked rag aids in picking up small fragments of broken glass.

- a. radiator tank
- b. Tapping Gun
- c. vacuum cleaner
- d. Water Gun

Ans: C

Exp: Vacuum Cleaner used to remove fragment of broken glass.

Q 1956 the handle of a wire brush is ideal for this operation. As the torch is moved the brush handle follows keeping approximately three inches to the rear of the flame at all times.

- a. Overflow Pipe
- b. Radiator Disassembly
- c. Side Member Removal
- d. constant tapping

Ans: D

Exp: Constant Tapping rear of the flame at all times

Q 1957. Developing a suitable technique for welding _____ depends upon consideration of the following factors affecting the weld ability of armor plate

- a. Difficult performed
- b. Weld ability
- c. armor plate
- d. Hot metal performed

Ans: C

Exp: Wed-Ability considers the following affecting of armor plates

Q 1958. The vise has rubber padded _____ to hold the glass securely and an adjustable lever to pull the channel from the glass without cracking or breaking the glass

- a. weld ability
- b. hardened armor
- c. jaws
- d. Hot metal performed

Ans: C

Exp: Jaws are padded to hold the glass securely

Q 1959. When fillet welds are on both sides of a joint and a general note governing The dimensions of the welds appears on the drawing, neither weld need be dimensioned

- a. jaws
- b. weld ability
- c. designated
- d. Hot metal performed

Ans: C

Exp: Jaws are padded to hold the glass securely

Q. 1960. Stresses can be set up by supporting the glass on an uneven surface or by applying pressure to an edge or corner which is ?

- a. jaws
- b. weld ability
- c. designated
- d. unsupported

Ans: D

Exp: Stresses can be set up by unsupported surface

Q. 1961. The vise has rubber padded jaws to hold the glass securely and an adjustable lever to pull the channel from the glass without the glass

- a. Breaking
- b. jaws
- c. weld ability
- d. unsupported

Ans: a

Exp: Level Pull the channel from glass without breaking the glass

Q 1962. When fillet welds are indicated on both sides of a joint and no general note governing the dimensions of the welds appears on the ?

- a. Jaws
- b. Drawing
- c. Breaking
- d. Unsupported

Ans: B

Exp: Both sides of joint generally note governing the dimensions

Q. 1963. After a pattern is made, it should be plainly marked according to and kept for further use.

- a. Jaws
- b. make
- c. model
- d. make and model

Ans: D

Exp: make and model use pattern marked according to further use.

Q. 1964. Each layer of _____ deposited serves to stress relieve the weld metal immediately under it and to incompletely temper the immediately affected zone produced in the base metal by the previous welding bead

Select the correct Answer:

- A. metal
- B. heat
- C. Reduced
- D. Reproduced

Ans: A

Exp: Incompletely temper heat affected zone produced

Q. 1965. Electrode should be oscillated or moved uniformly from side to side with slight hesitation at the end of each oscillation and, as in bead welding, the electrode should be inclined _____ to 15 degrees in the direction of welding.

Select the correct Answer:

- a. 80
- b. 40
- c. 5
- d. 50

Ans: C

Exp: Electrode should be inclined 5 to 15 degree in welding direction

Q. 1966. Shielded-arc Electrodes are coated in three general types of coating consist on both combination for _____ and _____.

Select the correct Answer:

- A. Cellulose
- B. Thinly Electrodes
- C. Mineral
- D. both Cellulose and mineral

Ans: D

Exp: Combination Both Cellulose and Mineral are coated in three types.

Q 1967. Round tubes are easily broken by the expansion of freezing water, whereas oval tubes will be distorted to some extent before _____.

- a. freezing
- b. breaking
- c. Normal
- d. Acid

Ans: B

Exp: Oval Tubes will be distorted to extent for Breaking

Q 1968. The _____ should be held at 90 degrees to the vertical when welding Upward .

- A. Upward
- B. Downward
- C. electrode
- D. Backward

Ans: C

Exp: Angle must be 90 degree proper between the electrode and base metal while welding upward.

Q 1969 Goggles and helmets with dark face plates are worn to prevent this exposure and, in recent years, new helmet models have been produced featuring a face plate that self-darkens upon exposure to high amounts of _____

- a. UV light
- b. Gloves
- c. Cap
- d. Pen

Ans: A

Exp: Helmets and goggles must be worn to protect eyes from Ultra Violet Rays

Q 1970. The SMAW process has the advantage of being relatively Simple heat only requiring a power supply, _____, and electrode holder. It is commonly used in simple Heat, shipbuilding, and pipeline work, especially in remote locations.

- a. simple Heat
- b. Metal
- c. Power Cables
- d. construction

Ans: C

Exp: process advantage of being Simple heat

Q 1971. The proper polarity for a given electrode can be recognized when attempting a weld by the Sharp , _____ sound of the arc. The wrong polarity will cause the arc to produce a taunts sound and the welding bead will be difficult to control.

Select the correct Answer:

- A. Sharp
- B. Cracking
- C. Loud
- D. Sharp and low

Ans: B

Exp: it produced sharp and cracking sound

Q 1972. Inside garnish molding which fits on the inside of the vehicle around the _____ glass and other window openings is fastened in place with sheet metal screws.

- a. measurements
- b. Vehicle
- c. windshield

d. Arc

Ans: C

Exp: Garnish moldings are normally held together by a metal frame and sheet metal screws

Q 1973. _____ used on all low crown panels. The hooks on the dolly are used on fender beads, drip moldings, and sharp, concaved moldings.

- a. High Crown Dolly
- b. Heel Dolly
- c. Offset Cross-Peen Hammer
- d. Low Crown Dolly

Ans: D

Exp: Low Crown Dolly are used on fender beads and share concaved Moldings

Q 1974. The _____ and the height above the point of tangency will be indicated by showing both the radius and the height separated by a plus mark and placed to the left of the weld symbol .

- a. Fillet welds
- b. weld symbol
- c. Radius
- d. Size

Ans: C

Exp: Weld Symbol place to the left.

Q 1975. Ultrasonic Testing is a mature and robust _____ technology capable of detecting small and dangerous flaws within material bodies.

Select the correct Answer:

- A. detecting
- B. defecting
- C. in detecting

D. non destructive inspection

Ans: D

Exp: Inspection technology capable of detecting small flaws.

Q1976. A manual transmission or transaxle multiplies and transfers the engine's power to the drive wheels. Engines produce a maximum amount of torque while operating within a narrow range of engines _____ through selection of the proper gear ratios in the transmission, the maximum torque applied to the drive wheels can be multiplied.

Select the correct Answer:

A: Engine Speed

B: Torque

C: Proper gears.

D: Drive wheels

ANS. A

Exp: Engine produce maximum amount of torque with proper selection of gears and produce maximum amount of power for wheels.

Q1977. A transaxle combines a transmission section and differential section .It is typically found in front- engine, front wheel drive (FWD) vehicles. Axle shafts, called half shafts, connect the _____ to the drive wheels.

Select correct Answer:

A. Front wheel drive

B. Rear

C. Hal shafts

D. Axle shafts

ANS. B

Exp: (FWD) Vehicles are the combination of transmission section that connects transaxle to the drive wheels.

Q1978. A _____ is typically a separate unit in rear-wheel drive (RWD) vehicles. A driveshaft connects the differential to the rear drive wheels.

Select the correct Answer:

- A. Transmission
- B. Driveshaft
- C. Wheel drive
- D. Rear

ANS. A

Exp. Driveshaft plays a vital role in transmission of rear-wheel drive vehicles (RWD)

Q1979. A manual transmission or transaxle changes the speed and torque relationship between the engine's crankshaft and what emerges from the _____ output shaft.

Select the correct Answer:

- A. The speed and torque
- B. Transmission's
- C. Manual transmission
- D. Transmission's

ANS. D

Exp. Speed and torque relationship is outcome of crankshaft and transmission of output shaft.

Q1980. Through a system of several gears, which the driver selects, the torque of the engine is multiplies. Typically there are anywhere from three to six forward gears, a reverse gear, and _____.

Select Correct Answers.

- A. Input shaft
- B. Neutral
- C. Several gears
- D. Six forward gears

ANS. A

Exp. Input shaft produce engine power through mechanical systems of gears.

Q 1981. When engine speed increases, higher gears are selected. For highway cruising, use of the _____ allows the engine to operate at lower speeds. This is more fuel-efficient, and saves unnecessary wear and tear on the engine, but provides less torque.

Select Correct Answers.

- A. Torque
- B. Higher gears.
- C. Transmission.
- D. lowest gear

ANS. D

Exp. Maximum number of gears save wear and tear of engine and fuel, higher is the number of gears means maximum life of engine.

Q 1982. When gears mesh, they transfer torque. By varying the size of the gears and the number to teeth on them, the torque is _____. To mesh, gear teeth need to be of the size and type.

Select Correct Answers

- A. Torque
- B. Size and type
- C. Multiplied
- D. Mesh

ANS. C

Exp. Torque is produced when the gear teeth are equivalent in size and type.

Q 1983. This type of gear is also called straight cut. Straight cut gears are noisy, and shifting them at speed is not easy. They are used only for reverse on _____

Select Correct Answers.

- A. Noisy
- B. Reverse

- C. Manual Transmission
- D. Shifting

ANS. C

Exp: Straight cut gears makes noise and used only for reverse or manual transmission.

Q 1984. Helical cut gears are cut in a _____, at an angle to the centerline of the gear. They also generate sideways loads, which are absorbed by bearings, washers, and the transmission case itself.

Select Correct Answers.

- A. helix (curve)
- B. transmission
- C. Quietly than spur cut gears.
- D. Transmission Case

ANS. A

Exp: Helical gears are smoother and silent other than spur cut gears but do also generates sideways load.

Q 1985. Contact is spread over more than one tooth at a time. There are a few thousandths of an inch clearance between the meshed teeth to permit lubrication of an inch clearance between the meshed teeth to permit lubrication and _____ metal expansion. The movement that this allows between the gears is called.

Select Correct Answers.

- A. lubrication
- B. heat- related
- C. backlash
- D. clearance

ANS. B

Exp. Transaxle and clutch transmission contact is spread gears, with mere place for lubrication and movement.

Q 1986. Detents are provided to hold the ____ in position after gearshifts; The interlocks assure engagement of only one gear at a time.

Select Correct Answers

- A. forks
- B. only one gear
- C. position
- D. gearshifts

ANS. A

Exp. Interlocks assure the engagement of gears accordingly.

Q1987. Helical cut gears add _____ along the length of the shafts that the gears are on. Thrust washers absorb this thrust pressure, and keep the gears precisely in place. Thrust washers, range from simple metal washers to elaborate discs with inset bearings.

Select Correct Answers

- A. Metal washers.
- B. simple metal
- C. Gears precisely
- D. Thrust pressure.

ANS. D

Exp. Thrust pressure is absorbed by thrust washers, and maintains the gears working precisely.

Q 1988. The shafts in a transmission ride in bearings. Those gears that freewheel are also set in bearings. These bearings maintain close tolerances to minimize any tendency to wobble. Ball, needle, and roller bearings minimize losses and wear due to_____.

Select the correct Answers.

- A. Friction
- B. Bearings
- C. Shafts
- D. Length

ANS. A

Exp. Friction is minimized in mechanism with using different sort of bearings.

Q1989. Synchronizers, moved by shift forks, are used to lock selected gears onto shafts to multiply power from the engine and transfer it to the _____.

Select Correct Answers

- A. Synchronizers
- B. Gears
- C. Driving wheels
- D. Engine

ANS. C

Exp. Synchronizers generates power for engine and transfer it to the driving wheels.