

Car Repairman Job Interview Questions And Answers



Interview Questions Answers

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Car Repairman Interview Questions And Answers Guide.

Question - 1:

Explain what Is The Use Of Hydrogen In Automobile?

Ans:

Low emissions. Essentially no CO or HC in the exhaust as there is no carbon in the fuel. Most exhaust would be H₂O and N₂ Fuel availability. There are a number of different ways of making hydrogen, including electrolysis of water.

[View All Answers](#)

Question - 2:

Do you know what Is Back Compressor In Engines?

Ans:

Back compression means the compression capability of the engine. An diesel engine can compress at the ratio of 14:1 to as high as 25:1. Thus the higher compression leads to better efficiency of the engine. Thick black smoke is emitted when the engine's compression is reduced which leads to the deformed ead-gasket lead into crankcase.

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Question - 3:

Tell us what Is Octane Number And Cetane Number?

Ans:

Octane number can be defined as the percentage, by volume, of iso-octane in the mixture of iso-octane and n-heptane. It is the measure of rating of SI engine. While cetane number can be defined as the percentage, by volume, of n-cetane in the mixture of n-cetane and alpha methyl naphthalene. It is the measure of rating of CI engine.

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Question - 4:

Tell me what Will Happen If Someone Adds Oil To The Fuel Of Four Stroke Bike Engine?

Ans:

This will result in damaging of the engine faster. Adding oil will lead to the higher wear and tear of the cylinder liner, piston and damage to the piston. It will lead to abnormal combustion and knocking and detonation. Dark smoke and abnormal sounds will be generated by the engine. One should not mix oil with the fuel of four stroke engine.

[View All Answers](#)

Question - 5:

Tell us what Is Pitching In The Suspension System?

Ans:

Pitching is a rocking action about a transverse axis through the vehicle, parallel to the ground. The front suspension moves out of phase with the rear, experiencing the rocking effect due to pitching.

[View All Answers](#)

Question - 6:

Do you know how Does The Thermostat Work?

Ans:

When the engine is too cold the thermostat closes the main valve, thus stopping the flow to the radiator. When the engine is too hot, it opens the main valve for normal circulation through the radiator.

[View All Answers](#)

Question - 7:



Do you know what Is Bhp? How Can You Measure Bhp?

Ans:

BHP is 'Brake Horsepower'. It reflects the powerfulness of the brakes of the vehicles. BHP stands for how much power will be required to make the engine stop working i.e. to stop the rotation of the engine.

$BHP = 2 \text{ times } \pi \text{ times torque times revolutions; all this divided by } 550.$ π is 3.1416 and torque is in pounds-feet, and revolutions are revs per second.

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Question - 8:

Tell me what Do You Mean By Independent Suspension?

Ans:

Independent suspension refers to the mounting of the wheel on a separate axle, so that road shocks affect only the particular wheel.

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Question - 9:

Tell me does Diesel Engine Powered Automobile Use Unit Pump And Unit Injector?

Ans:

In the case of the engines powered by diesel fuel supply systems, unit pump & unit injector are operated by camshaft & thus pressure of injected fuel depends on engine speed. Whereas, in common rail systems it is independent of engine speed.

[View All Answers](#)

Question - 10:

Tell us why Does A Compression Engine Use High -octane Fuel?

Ans:

The property of a fuel, which describes how fuel will or will not self-ignite, is called the octane number or just octane. Engines with low compression ratios can use fuels with lower octane number, but high compression engines must use high-octane fuels to avoid self-ignition and knock.

[View All Answers](#)

Question - 11:

Tell me in A Tractor, How The Hydrostatic Propulsion Systems Work?

Ans:

This system is based on Pascal's law. In a tractor the pressure is same, so the force given by the liquid to the surrounding is equal to the pressure X area. Thus, obeying the Pascal's law hydrostatic propulsion system is designed, similarly small piston feels small force and the large piston feels larger area.

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Question - 12:

Do you know what Is Clutch Drag?

Ans:

When the clutch is not disengaging fully and provides some difficulty in changing the gears then this defect is called clutch drag.

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Question - 13:

Suppose if We Use Gasoline In Diesel Engine, What Will Happen?

Ans:

Adding gasoline to the diesel engine may blast off the engine. Compression ratio of the petrol engine is 6 to 10 and diesel engine is 15 to 22. Thus gasoline will get very highly compressed and might result in blast off engine.

[View All Answers](#)

Question - 14:

Do you know what Is Kingpin Offset? State Some Of Its Application?

Ans:

The kingpin offset is the part, basically called as pivot used in the steering of the vehicles. This offset helps in rotating of the steering and thus it's very useful in steering mechanism of the cars.

Applications: This is also used to measure scrub radius with the help of geometric parameters of wheel plane above and below ground level. It provides directional stability to the vehicles when it is combined with the caster.

[View All Answers](#)

Question - 15:

Explain me how Air Conditioners Work In Cars?

Ans:

Air conditioners are based on the principles of evaporation and condensation and then compression and expansion. The hot air of the car is removed by the process of evaporation and then the condensation of the evaporated air takes places which is then further compressed by the compressor and then finally expanded to us in the form of cold breeze. Somehow, Air conditioning reduces the average of the car, as the energy is required to remove the hot air and then compression and expansion.



[View All Answers](#)

Question - 16:

The type of friction generally present in an automotive engine is

- a. Viscous friction
- b. Greasy friction
- c. Dry friction

Ans:

- a. Viscous friction

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Question - 17:

If the connecting rod longer, the side thrust of the piston is

- a. Increased
- b. Constant
- c. Decreased

Ans:

- c. Decreased

[View All Answers](#)

Question - 18:

When we lift a 10 kg weight, 3 metre we would be doing

- a. 300 m kg of work
- b. 3 m kg of work
- c. 30 m kg of work

Ans:

- c. 30 m kg of work

[View All Answers](#)

Question - 19:

Which type of valve arrangements require the use of rocket arms?

- a. H - head
- b. T - head
- c. I - head
- d. L - head

Ans:

- c. I - head

[View All Answers](#)

Question - 20:

Engine torque is highest at

- a. Low speed
- b. Intermediate speed
- c. High speed

Ans:

- b. Intermediate speed

[View All Answers](#)

Question - 21:

The compression ratio in a diesel engine is as high as

- a. 25:1
- b. 20:1
- c. 10:1
- d. 5:1

Ans:

- b. 20:1

[View All Answers](#)

Question - 22:

The metering rod is designed to vary the size of which jets

- a. High speed jets
- b. Accelerating jets
- c. Float level jets
- d. Idle jets

Ans:

- a. High speed jets



[View All Answers](#)

Question - 23:

Tell me how much experience do you have working with automobiles?

Ans:

If you haven't worked on automobiles in a professional setting, don't sweat it! You can include your experience working on your own cars or others. When you respond to this question, you want to go in depth about the type of work you have done, sharing your knowledge and areas of expertise. Rather than saying, "I have about 8 years of experience,"

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Question - 24:

Tell us what Is The Range Of Engine Efficiency In Case Of Two Stroke Engine?

Ans:

The two stroke engines have very high range to be compared to the four stroke engines. Because power stroke is generated every two revolution while in four stroke, power stroke is generated every four revolutions.

[View All Answers](#)

Question - 25:

Tell me what Is Sae? Mention The Importance Of Sae To The Automobile Domain?

Ans:

SAE stands for society of automotive engineers. This society is responsible for developing the standards for the engineering of powered vehicles of all kind. The vehicles may include car, boat, truck and even aircraft. SAE has developed standards for ground vehicles and aerospace vehicles. SAE also encourages students of engineering, technology, science and math's disciplines. This society has been publishing technical information since 1906.

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Question - 26:

Connecting rods are generally of the following from

- a. Forged round section steel
- b. Cast steel triangular section
- c. Forged square section steel
- d. Forged I section steel

Ans:

d. Forged I section steel

[View All Answers](#)

Question - 27:

The compression pressure in diesel engine is around

- a. 30 Kg/cm²
- b. 10 Kg/cm²
- c. 20 Kg/cm²
- d. 40 Kg/cm²

Ans:

a. 30 Kg/cm²

[View All Answers](#)

Question - 28:

The crankcase scavenging the the crankcase or underside of the piston acts as

- a. An air compressor
- b. A blower
- c. A ventilator
- d. A breather

Ans:

a. An air compressor

[View All Answers](#)

Question - 29:

The characteristic of an object which makes it resist any tendency to change its direction of motion is called

- a. Inertia
- b. Power
- c. Internal energy

Ans:

a. Inertia

[View All Answers](#)

**Question - 30:**

If compression ratio is increased

- a. Thermal efficiency will be increased
- b. Volumetric efficiency will be increased
- c. Air standard efficiency will be decreased
- d. Air standard efficiency will be increased

Ans:

- d. Air standard efficiency will be increased

[View All Answers](#)

Question - 31:

As the number of cylinders in multi cylinder engines increases the power to weight ratio

- a. Remains the same
- b. Increases
- c. Becomes zero
- d. Decreases

Ans:

- b. Increases

[View All Answers](#)

Question - 32:

The temperature of the piston will be more at

- a. The piston walls
- b. The crown of the piston
- c. The skirt of the piston
- d. The piston pin

Ans:

- b. The crown of the piston

[View All Answers](#)

Question - 33:

Tell us what Are Mphi And Tpfcl Systems?

Ans:

MPFI stands for Multi Point Fuel Injection. In this system fuel is injected into the intake ports which is situated just upstream of each cylinder's intake valve. These systems are sequential systems, in which injection is timed to coincide with intake stroke of each cylinder.

TPFC stands for transient power fuel control system. In this type of systems constant choke carburetor is used. The salient feature of this carburetor is that it provides jerk less engine raise. In these systems, throttle valve creates vacuum which opens the slide which controls the air fuel ratio through a tapered jet.

[View All Answers](#)

Question - 34:

Do you know what Is The Size Of The Recommended Compressor Cfm? Where It Can Be Used?

Ans:

It is generally used in spray painting of very small areas. It can be used where painting with brush is very difficult. thus to improve the rate of painting the spray painting is used as this method is very fast and efficient. Usually reciprocating compressors are used but size depends on requirements.

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Question - 35:

Why do you want to work for our garage as Car Repairman?

Ans:

The interviewer wants to know that you're not just interested in any place that will hire you. They want to know that you want to work for them, specifically. Before the interview, learn as much as you can about their garage. You can search customer reviews to learn about their reputation. An auto repair shop with good reviews reflects their values as well. Think about the places you have worked. What did you like most about them? If you can't find much online or through asking around beforehand, try to list at least three things you have read that you like about their garage. Prepare questions for any remaining areas that are unclear, but focus on values and qualities, such as work environment, employee training, and customer care.

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Question - 36:

The duration of the fuel injection at full load in a diesel engine running at 1800 rpm when it has 200 of crank travel is

- a. 1/600 sec
- b. 1/640 sec
- c. 1/540 sec
- d. 1/530 sec

Ans:

- c. 1/540 sec

[View All Answers](#)

**Question - 37:**

During compression stroke the air is compressed according to

- a. Isothermal process
- b. Hyperbolic process
- c. Adiabatic process
- d. Constant pressure process

Ans:

- c. Adiabatic process

[View All Answers](#)

Question - 38:

For diesel engines the nominal compression ratio is from

- a. 17 to 21:1
- b. 7.5 to 8.5:1
- c. 30 to 40:1
- d. 1 to 5:1

Ans:

- a. 17 to 21:1

[View All Answers](#)

Question - 39:

In general the design of the current regulator is such that its main actuating winding carries full

- a. Generator voltage
- b. Generator output
- c. Field current
- d. Battery voltage

Ans:

- b. Generator output

[View All Answers](#)

Question - 40:

Tell us how do you approach difficult situations with customers and co-workers?

Ans:

Demonstrates ability to handle stress.

[View All Answers](#)

Question - 41:

Tell us what Is The Use Of Natural Gas In Automobiles?

Ans:

High octane number makes it very good S.I engine fuel
Low engine emissions. Less aldehydes than with methanol

[View All Answers](#)

Question - 42:

Tell us why The Plastic Materials Used In The Screwdriver's Handles?

Ans:

Due to non-conducting nature of plastic, it is widely used for the electricity purposes. Moreover, plastic is cheap and strong so it is less prone to damage. Furthermore, plastic does not bend and does not slips from the users hands.

[View All Answers](#)

Question - 43:

Tell us during The Drive Torque, What Will Be The Weight Shift?

Ans:

In case of cars the torque is applied to the rear wheels, thus limiting accelerator due to front wheel drive due to weight transfer. This drive is bolted to the chassis of the car. Modern manufacturers therefore design rear wheel drive to have similar handling to front wheel drive wherever possible via suspension tuning.

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Question - 44:

Explain a time when you made a mistake while repairing a vehicle. How did you handle it?

Ans:

Shows accountability.

[View All Answers](#)

Question - 45:



The two-stroke engine has valve ports in the

- a. Pistons
- b. Cylinder walls
- c. Piston rings

Ans:

- b. Cylinder walls

[View All Answers](#)

Question - 46:

The range of gear ratios in a vehicle depends on

- a. The ratio of engine h.p to laden weight of vehicle
- b. Max. engine torque / wt. of vehicle
- c. Only on the laden weight of vehicle
- d. The power to weight ratio of engine

Ans:

- b. Max. engine torque / wt. of vehicle

[View All Answers](#)

Question - 47:

As compression ratio in an engine goes up, the octane requirements of the fuel

- a. Goes down
- b. Goes up
- c. Stay about the same

Ans:

- b. Goes up

[View All Answers](#)

Question - 48:

The maximum pressure of air at the end of compression in diesel engines is about

- a. 10 Kg/cm²
- b. 100 Kg/cm²
- c. 300 Kg/cm²
- d. 30 Kg/cm²

Ans:

- d. 30 Kg/cm²

[View All Answers](#)

Question - 49:

The heat is added in the cycle at

- a. Constant pressure
- b. Constant volume
- c. Approximately constant pressure and constant volume

Ans:

- c. Approximately constant pressure and constant volume

[View All Answers](#)

Question - 50:

Explain me what Is Dtsi? Why This Technology Is Used In Motor Bikes?

Ans:

DTSI stands for Digital Twin Spark Ignition. This is used to get better combustion in the combustion chamber. In this technique double spark plugs are used to obtain better combustion of fuel in cylinder head. Through this technique fuel is ignited properly. Moreover it provides better efficiency and it is economical in fuel consumption.

[View All Answers](#)

Question - 51:

Do you know the Basic Difference Between Bs2 And Bs3 Engine?

Ans:

The basic difference of BS2 and BS3 engines is the presence of catalytic convertor. Catalytic convertor is present in BS3 engine which helps in reducing the formation of HC and CO. While in BS2 engine, no catalytic convertor is present which forms HC and CO. Thus in BS3 engine there is no emission of harmful CO and HC. The full form of BS is bharat stage, which is a standard of emission in India.

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Question - 52:

Tell me what is the most complicated repair job you've handled? What did you learn from it?

Ans:



Reveals more about work history.

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Question - 53:

The size of intake valve is

- a. Smaller than that of the exhaust valve
- b. Equal to that of the exhaust valve
- c. Larger than that of the exhaust valve
- d. Not depending upon the size of exhaust valve

Ans:

- c. Larger than that of the exhaust valve

[View All Answers](#)

Question - 54:

For petrol engines the nominal compression ratio will vary between

- a. 1 to 2:1
- b. 18 to 21:1
- c. 1 to 5:1
- d. 7.5 to 8.5:1

Ans:

- d. 7.5 to 8.5:1

[View All Answers](#)

Question - 55:

Vibration damper

- a. controls the torsional vibrations
- b. drives the pulley
- c. dampens the engine speed
- d. reduces the speed of the flywheel

Ans:

- a. controls the torsional vibrations

[View All Answers](#)

Question - 56:

The temperature of the compressed air should be of the fuel

- a. Below the flash point
- b. Above the flash point
- c. Above the fire point
- d. Between the fire and flash point

Ans:

- c. Above the fire point

[View All Answers](#)

Question - 57:

The turbulence in diesel engines ensures to

- a. Increase the volumetric efficiency
- b. Increase the compression ratio
- c. Bring the fuel quickly in contact with the air
- d. Increase the specific fuel consumption

Ans:

- c. Bring the fuel quickly in contact with the air

[View All Answers](#)

Question - 58:

A negative loop in the P.V diagram of an I.C engine is due to

- a. Pre ignition in the engine
- b. Suction of air for engine
- c. Pre opening of the exhaust valve
- d. High pressure in the cylinder

Ans:

- b. Suction of air for engine

[View All Answers](#)

Question - 59:

Explain how would you prioritize tasks on a busy day and ensure that clients feel supported and valued?

Ans:



Demonstrates task management and customer service skills.

[View All Answers](#)

Question - 60:

Do you know an Injector Pressure In Heavy Vehicles? Why It Is Used?

Ans:

Injector pressure is the pressure at which the fuel can be injected into the vehicle. In heavy vehicles, injector pressure is 220 kg/cm square. It is used to set up the standard fuel injection in the vehicles. With the help of injector pressure we can calculate the amount of fuel needed, through the following formula:

Est. Horsepower x B.S.F.C / No. of injectors x duty cycle = lb/hr per injector

cc = lb/hr x 10.5

[View All Answers](#)

Question - 61:

Tell me what Are Three Methods Of Heat Transfer?

Ans:

Three methods of heat transfer are conduction, convection and radiation.

* Conduction: The transfer of energy by collisions between the atoms and molecules in a material.

* Convection: Transfers heat when particles move between objects or areas that differ in temperature.

* Radiation: The transfer of energy by waves.

[View All Answers](#)

Question - 62:

During suction stroke the pressure inside the cylinder is

- Equal to atmospheric pressure
- Above atmospheric pressure
- Above or below atmospheric pressure
- Below atmospheric pressure

Ans:

d. Below atmospheric pressure

[View All Answers](#)

Question - 63:

One of the major causes of FHP in an engine is

- High speed
- High volumetric efficiency
- Piston-ring friction

Ans:

c. Piston-ring friction

[View All Answers](#)

Question - 64:

In a six cylinder engine there is balance of

- Primary forces only
- Secondary forces only
- Both primary and secondary forces

Ans:

c. Both primary and secondary forces

[View All Answers](#)

Question - 65:

The combustion process in a diesel engine is

- Constant pressure process
- Isothermal process
- Constant volume process
- Adiabatic process

Ans:

a. Constant pressure process

[View All Answers](#)

Question - 66:

In 'V' type engines the included angle between two banks of cylinders is

- 45°
- 60°
- 130°
- 90°

Ans:



d. 900

[View All Answers](#)

Question - 67:

Two stroke engine is preferred for small vehicles because

- a. Fuel consumption is low
- b. Shock and vibrations are less
- c. Its size is small
- d. It is easy to control

Ans:

- c. Its size is small

[View All Answers](#)

Question - 68:

In commercial vehicle layouts engine is located forward, rear or under floor mainly to

- a. Better utilization of space
- b. Increase fuel economy
- c. Better weight distribution
- d. Reduce the weight of chassis

Ans:

- c. Better weight distribution

[View All Answers](#)

Question - 69:

Explain me what Is The Reason For Emitting The White Exhaust Smoke During Start Of The Vehicle? How Will You Prevent This?

Ans:

The main cause of white smoke is water or anti-freeze entering the cylinder, so the engine starts to burn it with the fuel. That white smoke is nothing but steam. Prevention measures: There are special gaskets i.e. head gaskets and primary gaskets that prevent the anti-freeze from entering into the cylinder area. This anti-freeze will produce a white steam which will accumulate at the tailpipe area.

[View All Answers](#)

Question - 70:

Explain me how Will You Differentiate Between Two Stroke Engine And Four Stroke Engine?

Ans:

In case of two stroke engine, rotation of crank shaft will be power stroke for every two rotations. During compression stroke, fuel will flow towards the crank case (suction) and during power stroke, exhaust will emit the burnt fuel through the transfer ports. While in case of four stroke engine, rotation of crank shaft will be power stroke for every four rotation. Moreover, suction compression power and exhaust strokes are separate as there will be inlet and exhaust valves.

[View All Answers](#)

Question - 71:

Tell me the Reason That Why Big Tyres Are Used In Rear Of Vehicles?

Ans:

Large tyres provide larger surface area touching the ground, thus providing the more pulling power. Basically tractors have larger rear tyres because tractors don't have to operate at higher speeds, thus getting the same ground speed with larger tyres. Moreover gear ratios don't have to be as high as b/c of the tyres.

[View All Answers](#)

Question - 72:

Tell me the Reason That Why The Tyres Are Always Black In Colour. Is This Phenomena Related To The Heat Conduction?

Ans:

Tyres colour is black due to the proportion of carbon mixed in it during the vulcanization of the rubber, to make the tyre shear resistant. Without vulcanization tyres won't be able to bear the friction heat and stress of the road. Thus carbon is responsible for giving tyres the prominent black colour. Adding of carbon prevents tyres from rapidly deteriorating because when ozone combines with the ultraviolet light from the sun. It attacks the polymer of the tyre.

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Question - 73:

Tell me what kind of maintenance must be performed regularly to keep a car in proper working order? Provide the mileage and basic procedures?

Ans:

Tests job knowledge.

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Question - 74:

Knowing the speed at which an engine is running and the torque it is developing, we can calculate

- a. FHP
- b. IHP



c. BHP

Ans:

a. FHP

[View All Answers](#)

Question - 75:

Comparing a Four wheel drive with Two wheel drive system either at front or rear and assuming an equal division of weight between the two axes

- a. From the point of view of traction front wheel drive is better than rear wheel drive
- b. Front wheel and rear wheel drive are equal
- c. Four wheel drive can always give more traction than either rear or front wheel drive
- d. Four wheel drive can utilize all the weight of the vehicle only at a particular road friction

Ans:

c. Four wheel drive can always give more traction than either rear or front wheel drive

[View All Answers](#)

Question - 76:

The conventional mechanical type fuel pump develops pressure

- a. 0.15 Kg/cm²
- b. 1.0 Kg/cm²
- c. 0.5 Kg/cm²
- d. 0.3 Kg/cm²

Ans:

b. 1.0 Kg/cm²

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Question - 77:

Immediately after ignition, combustion chamber temperatures may reach a value of

- a. 15000C
- b. 55000C
- c. 25000C
- d. 75000C

Ans:

a. 15000C

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Question - 78:

The fit of the piston to the cylinder is measured at the

- a. Piston skirt
- b. Piston head
- c. Point of minimum diameter

Ans:

b. Piston head

[View All Answers](#)

Question - 79:

The maximum pressure of air fuel mixture at the end of compression in petrol engines varies from

- a. 10-30 Kg/cm²
- b. 30-100 Kg/cm²
- c. 6-10 Kg/cm²
- d. 100-1000 Kg/cm²

Ans:

a. 10-30 Kg/cm² b. 30-100 Kg/cm²

[View All Answers](#)

Question - 80:

The fuel injected when pressure in the cylinder reaches the point on the curve

- a. 1
- b. 2
- c. 3
- d. 4

Ans:

c. 3

[View All Answers](#)

Question - 81:

The type of air cycle used in diesel engine is called

- a. Otto cycle



- b. Carnot cycle
- c. Diesel cycle
- d. Rankine cycle

Ans:

c. Diesel cycle

[View All Answers](#)

Question - 82:

Explain me what Is Pan Hard Rod Or Track Bar?

Ans:

A pan hard rod is a bar or tube running from one side of the axle to the frame on the other side of the vehicle. It helps the leaf spring in keeping the axle centered under the body during turning a corner.

[View All Answers](#)

Question - 83:

Explain me what Is A Pressure Cap In The Radiator?

Ans:

It is a seal in the radiator that maintains the selected pressure in the cooling system when the engine is hot.

[View All Answers](#)

Question - 84:

Tell me the Significance Of Governor In Automobiles?

Ans:

Governor is an important component of automobile engine. It is used to regulate the main speed of engine during the variations in loads. With the variations in the load, fuel supply has to be maintained. This task is performed by the governor. In the case of high load on the engine, speed decreases, hence fuel supply has to be increased and similarly when load decreases then the fuel supply has to be decreased.

[View All Answers](#)

Question - 85:

Explain me what Do You Understand By Cc Of Engine?

Ans:

The meaning of CC is cubic centimeters. It represents the total volume of the engine cylinder. This reflects that the engines with more CC can generate more powers than the other engines. CC can also be related as inversely proportional to the fuel consumption.

[View All Answers](#)

Question - 86:

Tell me how would your co-workers describe your attention to detail?

Ans:

My co-workers would describe my attention to detail as very strong. I can very easily point out discrepancies on a report and will notice the small things like an engine sounding slightly off. I think big-picture as well but have always had a knack for details.

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