

# METAGUISE

## Mechanical Engineering Interview Questions & Answers

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- **Explain Mechanical Engineering?**

Mechanical engineering is one of the specialized branches of engineering which deals with the request of the principles of Material Science and Physics. It is a regulation which has the reason of manufacturing, maintaining, analyzing and designing odd the mechanical systems.

- **Define ferrite material and define its applications?**

The material used in numerous types of electronic types is Ferrite. It is a terracotta-like material which contains attractive properties and is used in enduring magnets, steroidal inductors, and computer recollection elements.

- **Tell me the types of fits?**

There are three types of fits:

- Clearance fit
- Interference fit
- Transition fit
- **Why is heat treatment required?**

The heat treatment is necessary for the hard-bitten materials for humanizing their dimensional constancy and toughness. They are frequently tempered or stress reassured for obtaining improved mechanical properties.

- **Who discovered Non-Newtonian fluids?**

Non-Newtonian Fluid was exposed by Sir Isaac Newton.

- **What do you mean by impulse reaction turbine?**

An impulse response turbine is utilized for generating a high pace of the plane of water by converting the weight of energy into kinetic energy through a needle. After that, the water jet strikes the turbine's blades and then starts revolving it.

- **Define orthographic drawing?**

An orthographic drawing is also called as an orthographic outcrop is used for representing a 3-D object with the assist of 2-D views of the object. This drawing helps in visualizing the image from the frontage, top and plane of the material.

- **What do you mean by Greenfield project?**

These are the projects, which are built from graze and do not generate pollution.

- **Define the cotter joint?**

It is one of the kinds of a joint that are used to join two rods, which are under compressive or tensile anxiety. This joint is complete of strengthening or iron. Cotter's joint is used for linking a piston rod to the crosshead of the reciprocating steam train.

- **Explain pitting?**

It is the deterioration that turns to a little hole in the metal.

- **What do you mean by caustic embrittlement?**

Caustic embrittlement is a corporeal change in metal. In this occurrence, the boiler becomes fragile because of the accretion of caustic soda.

- **Define the Otto cycle in brief?**

Otto cycle describes the performance of an archetypal spark-explosion four-stroke engine. Otto cycle is an explanation of what happens to gas as it is subjected to changes of volume, hotness, addition, or exclusion of heat.

- **Name the boiler that does not need a steam drum?**

Supercritical force boiler does not require a steam drum.

- **Explain a uniformly distributed load?**

A uniformly distributed load is a weight which is increase over an area of the beam. Here the scale of the load remains alike all through the constituent.

- **Define universal coupling?**

Universal coupling is used to attach two shafts whose axes are tending to each other. It consists of a couple of hinges, linked by an irritated shaft.

- **Define mechanical refrigeration?**

Mechanical refrigeration is a procedure by which heat is detached from an exact location using a false heat-exchange system. The refrigeration scheme can be cyclic, non-cyclic, attractive or thermoelectric depending on the request for which refrigeration is desirable.

- **Name the various types of brakes?**

The various types of brakes are:

- Electric breaks
- Mechanical brake
- Hydraulic brake
- **Define knurling?**

It is a manufacturing progression conducted on the lathe tool to generate a prototype on a bar that can be used a grip.

- **What do you understand by engineering drawing?**

It is an industrial document used to relocate technical details and classify requirements.

- **Explain the least count?**

It is the negligible worth that can be deliberate by measuring tool. Least count can be calculated using the following formula:

Least Count= Value of one level division - Total number of a Vernier level division.

- **Name the various types of screws?**

The various types of screws are:

- Screw drive type
- Screw Head
- Screw thread type
- **Define GD & T?**

GD&T is a sort contraction of Geometric Dimension & Tolerance. It is a scheme which defines engineering tolerances.

- **Define bearing?**

Bearing is a device that is located between two components of the train for the smoother group. It enhances the competence of any machine.

- **Define the term torque?**

A power that causes a revolution is called torque. It is a compute of how much force is necessary to turn an object.

- **Explain coal?**

Coal is a sedimentary shale that contains other elements like sulfur, chiefly hydrogen, oxygen and nitrogen. It is the most significant main fossil fuels.

So, above is the mentioned interview questions & answers for [mechanical engineering jobs](#), candidates should go through it and search more to clear the job interview efficiently.