

Top 75+ Mechanical Engineering Interview Questions and Answers

1. What is a heat exchanger? Give some real life applications of heat exchangers?

Answer: Heat exchanger is a system used to transfer heat between two or more fluids. They are commonly used in heating and cooling process. Real life applications of heat exchangers are Refrigerator, AC and Aircraft engines.

2. What are the basic components of refrigeration system?

Answer:

1. Evaporator
2. Compressor
3. Condenser
4. Capillary Tube
5. Air Intake & Outgo valves.

3. What is a manometer? Give one real life example of manometer?

Answer: Manometer is a device used to measure pressure. Classic example of a manometer is sphygmomanometer, which is used in hospitals to measure blood pressure.

4. What are the 3 type of stresses?

Answer:

1. Tensile stress
2. Compressive stress
3. Shear stress.

5. What is mean by triple point in Thermodynamics?

Answer: Triple point of a substance is the temperature and pressure at which the solid, liquid, and vapor phases of a substance can coexist in equilibrium.

6. What are the methods or mode of heat transfer?

Answer:

1. Conduction
2. Convection
3. Radiation.

7. What is resilience?

Answer: The total energy stored in a body is commonly known as resilience.

8. What is meant by Hooke's law and elastic modulus?

Answer: Hooke's law states that when a material is loaded within elastic limit, the stress is proportional to the strain produced by the stress. It means the ratio of these to the corresponding strain is a constant within the elastic limit. This constant is known as Elastic Modulus.

9. What is mean by thermal stress?

Answer: Thermal stresses are the stresses induced in a body due to change in temperature.

10. What is meant by stress?

Answer: The resistance per unit area, offered by a body against deformation is known as

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