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**Engineering Drawing Interview Questions And Answers**

7. What is Engineering Drawing ?

Ans:  
A drawing which is worked out an engineer for the engineering purpose is known as Engineering Drawing.

8. Explain briefly the following lines used in Engineering drawing ?

Ans:  
(a)Dimension Lines  
Dimension lines are the thin lines used to indicate extents and direction of dimension. These are terminated with arrowheads.  
(b)Extension Lines  
Extension lines are also thin lines and it used to indicate the termination of a dimension.  
(c)Leaders  
Leaders are used to direct notes or identification symbols to feature on the drawing.

9. Difference between "Thermodynamics and Heat Transfer"?

Ans:  
Thermodynamics mainly deals with the transfer of energy in form of heat or work between systems and surroundings with other systems in form of either heat or work in equilibrium conditions. When there is change in one state, which was in equilibrium state and starting to change in other equilibrium state, this information helps to determine heat or work interactions due to the process. While

Heat transfer deals with non equilibrium heat exchange or transfer due to temperature gradient while in thermodynamics, during thermal equilibrium (No temperature gradient) no heat exchange is possible.

10. Explain in an orderly manner how the force in the member of a truss be detected using the method of joint.

Ans:  
The steps required to calculate the force are as follows:  
• The reaction at the support has to be first calculated.  
• Once the reaction is calculated the direction of force of the member is made to make it tensile. On getting the result to be negative the direction assumed is wrong and this implies the force being compressive in nature.  
• A joint needs to be selected whose 2 members are not known. The Lami's theorem is used on the joint on which less than three forces are acting.  
• After the above process is complete the free body diagrams of the joint needs to be made. Since the system is in equilibrium the condition of summation of V and H must result in zero.  
• After the above step the resolution of forces method needs to be used on the joint on which more than 4 forces are acting.

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