
Stationary Engineering End Of Section Test Questions with Complete Solutions

Combustion - AnswerThe rapid chemical combination of oxygen with the combustible elements of a fuel, resulting in the production of heat.

/.Three T's of Combustion - AnswerTime - sufficient contact time between fuel and air, Temperature - ignition temperature accelerates oxidation, Turbulence - thorough mixing of air and fuel for combustion.

/.Heating Value of Carbon - AnswerApproximately 14,500 BTU per pound.

/.Heating Value of Hydrogen - AnswerApproximately 61,000 BTU per pound.

/.Heating Value of Sulfur - AnswerApproximately 6,300 BTU per pound.

/.Heating Value of Natural Gas - AnswerApproximately 1,000 BTU per cubic foot.

/.Heating Value of Coal - AnswerVaries widely, typically 13,000 to 14,000 BTU per pound.

/.States of Matter - AnswerSolid, Liquid, Gas - each with distinct volume and shape properties.

/.Percent of Oxygen in Air by Volume - Answer21%

/.Percent of Oxygen in Air by Weight - Answer23%

/.Draft - AnswerThe flow of air through the furnace, with natural and mechanical draft types.

/.Types of Draft - AnswerInduced, Forced, Balanced - each affecting pressure and airflow differently.

/.Measurement of Draft - AnswerUsing a manometer or U-tube, measured in inches of water column.

/.Rate of Combustion - AnswerThe rate at which heat is released from a fuel.

/.Pounds of Air for Combustion of Coal - Answer10 pounds of air for 1 pound of coal.

/.Perfect Combustion - AnswerComplete burning of fuel with theoretical air amount.

/.Complete Combustion - AnswerComplete burning of fuel with excess air.

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