HEAT TRANSFER AND THERMODYNAMICS EXAM QUESTIONS WITH COMPLETE SOLUTIONS

Radiation - ANSWER-transfer of energy where there is no conductive medium (for example in space) for heat to transfer through. Heat takes place instead in the form of electromagnetic waves. When these waves fall on an object, some of the energy is absorbed, increasing the objects internal energy.

Conduction - ANSWER-heat source and heat sink are connected by matter. Transfer of heat occurs through collisions. Heat energy is transferred in solids, liquids, and gases (but in a lesser extent). Energy is transported by conduction as molecules vibrate, rotate, and/or collide into each other.

Transfer of heat energy to a mass - ANSWER-changes its temperature and its dimensions.

Specific heat is the amount of heat - ANSWER-needed to raise one gram of material one degree Celsius.

1 Calorie of heat will raise - ANSWER-1 gram of water 1 degree C.

Land areas warm up more rapidly than - ANSWER-water areas for the same heat input.

Latent heat is - ANSWER-the heat required to change a state of matter (from solid to liquid, or liquid to gas)

The water latent heat of fusion is 80 cal/g. The water latent heat of evaporation is 600 cal/g. When water evaporates, it takes heat from the environment. When it condenses, - ANSWER-it releases heat to the environment. Latent heat of evaporation/condensation is an important sink/source of atmospheric energy. This latent heat drives hurricanes and thunderstorms.

Differences in ground temperatures causes hot and cool spots. Warm air is forced upwards by the cooler air (convection). Rising air parcel goes to lower pressure. Air parcel expands and cools (gas law). If the air parcel is still warmer (buoyant) than the environment, - ANSWER-then it will continue to rise. On the other hand, if the air parcel is the same or cooler temperature than the environment, then it will stop rising.

What are methods of heat transfer - ANSWER-conduction, convection, and radiation

Conduction - ANSWER-transfer of energy through matter from one atom/molecules to the next within a substance. Conduction is most effective in solids, but can also take

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Ethirajan Rathakrishnan

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