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GATE-4. Ans. (b) Previous 20-Years IES Questions Cotters IES-1.

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Assertion (A): A cotter joint is used to rigidly connect two coaxial rods carrying tensile load. **Reason (R):** Taper in the cotter is provided to facilitate its removal when it fails due to shear. [IES-2008] (a) Both A and R are true and R is the correct explanation of A

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Questions Carnot cycle Q1. A cyclic
heat engine does 50 kJ of work per

cycle. If the efficiency of the heat

engine is 75%, the heat rejected per
cycle is [GATE-2001] 21 1 2 (a)16 kJ

(b)33 kJ (c)37 kJ (d)66 kJ 33 2 3 Q2. A

Carnot cycle is having an efficiency of
0.75.

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: Expansion Devices w.

The branch of physical science that deals with the relations between heat and other forms of energy (such as mechanical, electrical, or chemical energy), and, by extension, of the relationships between all forms of energy. Thermodynamics is a branch of physics that deals with heat, work, and temperature, and their relation to energy, radiation, and properties of matter. The behavior of these

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Quantities is governed by the four laws of thermodynamics which convey a quantitative description using measurable macroscopic physical quantities, but may be explained in terms of microscopic constituents by statistical mechanics.

Thermodynamics applies to a wide variety of topics in science and engineering, especially physical chemistry, chemical engineering and mechanical engineering, but also in other complex fields such as meteorology. Historically, thermodynamics developed out of a desire to increase the efficiency of early steam engines, particularly through the work of French physicist Nicolas Léonard Sadi Carnot (1824) who believed that engine efficiency was the key that could help France win the Napoleonic Wars.[1] Scots-Irish

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physicist Lord Kelvin was the first to formulate a concise definition of thermodynamics in 1854[2] which stated, "Thermo-dynamics is the subject of the relation of heat to forces acting between contiguous parts of bodies, and the relation of heat to electrical agency."

The subject theory of machine may be defined as that branch of engineering science which deals with the study of relative motion both the various parts of m/c and forces which act on them.

Industrial engineering is the branch of engineering that concerns the development, improvement, implementation and evaluation of integrated systems of people, knowledge, equipment, energy, material and process. Industrial

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engineering draws upon the principles and methods of engineering analysis and synthesis.

Inside an air conditioning system is a chemical refrigerant which is a chemical compound that easily changes states from liquid to vapor and back again. A common trade name for refrigerant which you may be familiar with is Freon. In addition to refrigerant, an air conditioning system requires a minimum of four components, the compressor, condenser, metering device, and evaporator. 1) The Compressor The compressor is the heart of the system. Just like your heart pumps blood through your body at a specific flow rate and pressure, the compressor pumps the refrigerant through the air conditioning system at a designed flow

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rate and pressure. When the refrigerant enters the compressor it is in a vapor state. It enters the compressor because it is literally being sucked into it. That is why the side of the compressor where refrigerant enters is called the suction side or low pressure side. As its' name suggests the compressor compresses the vapor as it is being pumped through it. When a vapor is compressed both the pressure and temperature of that vapor increases. The vapor leaving the compressor is very hot. You will get burnt if you were to touch the copper refrigerant lines coming off of the compressor. In the above diagram the high pressure vapor refrigerant is represented by red dots.2) The Condenser The high temperature refrigerant passes into a condenser coil. As the vapor refrigerant travels

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through the coil, air from a fan passes over the coil to cool the vapor refrigerant. As the vapor cools it condenses and becomes a liquid, this is referred to as a “change of state”. This “change of state” from vapor to liquid is essential. You may be somewhat familiar with a typical home system where the condensing unit sits outside. When operating you can place your hand over this unit and feel the warm air being blown out. Inside this condensing unit high temperature vapor refrigerant is entering into it, as the heat energy in the vapor is removed by blowing air across the condenser coil, the vapor changes to a liquid. You will soon see that the heat being blown from the condensing unit is the heat that used to be in your home. In the above diagram the liquid is represented by solid red.3) The

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Metering Device The metering device controls the flow of the liquid refrigerant to the next component which is the evaporator. This is a dividing point between the high pressure and low pressure sides of the system. As this high pressure liquid is passing through the metering device and into the evaporator the pressure drops.

4) The Evaporator After leaving the metering device the refrigerant immediately enters a coil called the evaporator. This coil or evaporator has a fan blowing across it. As the refrigerant enters the coil at a lower pressure it begins to bubble and boil and “change state” back to a vapor. During this process of changing state, energy in the form of heat is being removed from the air passing over the coil and is being absorbed by the refrigerant. The heat that was in the air

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is transferred into the refrigerant. Since heat was removed from the air blowing over the evaporator coil, the air leaving the evaporator coil is cold. You see that an air conditioner makes cold air by having the heat that is in the air absorbed into the refrigerant. Now that heat from your computer room, office area etc. is in the refrigerant what do we do with it? The heated refrigerant is sucked into the compressor and pumped back to the condenser coil. Here in the condenser the heat that was earlier absorbed by the refrigerant in the evaporator section from the space we are cooling is released and removed. The process of the refrigerant “changing states” from vapor to liquid (releasing heat through the condenser) and from liquid to vapor (absorbing heat in the evaporator) is how an air

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Principles of Composite Material Mechanics covers a unique blend of classical and contemporary mechanics of composites technologies. It presents analytical approaches ranging from the elementary mechanics of materials to more advanced elasticity and finite element numerical methods, discusses novel materials such as nanocomposites and hybrid multiscale composites, and examines the hygrothermal, viscoelastic, and dynamic behavior of composites. This fully revised and expanded Fourth Edition of the popular bestseller reflects the current state of the art, fresh insight gleaned from the author's ongoing composites

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