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Question 1. What are the main circuits in the thermal energy station? Answer: Thermal power plant includes four fundamental circuits, are: feeding water and steam breath circuits. Coal and ash circuit. Air and gas circuit. Cooling circuit. Question 2. Steam Power Plant works on which cycle? Answer: Steaming the strength plant works at the rankine cycle precept. Electronics and communications Interview Questions Question 3. What is the thermal efficiency of Power Plant steam? Answer: Thermal efficiency of the steam power plant is described as the equivalent heat ratio of mechanical energy transmitted to the turbine tree to combustion heat. Generally thermal performance of steam force systems could be within the 30-35% range. Question 4. What is the overall efficiency of the Power Plant thermal power plant or steam? Answer: Overall machine efficiency is described as the equivalent heat ratio of electric power to combustion heat. In general the overall efficiency of the steam system is usually lower than the thermal efficiency of steam systems, it will be of the order of 29-33%. The overall efficiency of steam systems is determined by the way to multiply the thermal performance of the plant with the performance of the generator (electrical performance). Power Electronics Tutorial Question five. Why is Power Plant's thermal efficiency rather low? Answer: In the steam electric station, more than 50% of the entire heat of combustion is lost as heat rejected to the condenser and the loss is inevitable as the thermal resistance cannot be converted into mechanical power with a temperature drop. Steam in the condenser is at lower temperature. This is the cause that the thermal performance of the plant is rather low. Operations Management Interview Question Question 6. What are the factors of efficiency (thermal) of the steam of the implants depends? Answer: Efficiency of the thermal power plant is based on three elements, can be steam strain coming in the temperature of vapor turbine by inserting the turbine pressure in the condenser thermal efficiency will increase with arm at a temperature and pressure to obtain the steam in the turbine. For this reason the temperature and excessive pressure are used. Thermal efficiency is successfully extended via decreasing the voltage into the condenser, so stress within the condenser is memorized as little as possible. Thermal performance also increases through heating the steam between turbine levels. Question 7. Why is Power Plant thermal efficiency low? Answer: almost 50% of the generated heat is out of place to the condenser as heat refusal. It is inevitable as without heat rejection it is not practicable to convert heat into electricity mechanical strength and force the temperature without dropping turbine. So most of the loss takes place inside the condenser. So the performance of the thermoelectric power plant is between 30-35%. Renewable Energy Tutorial Electronic Engineering Interview Questions Question Otto. On which non-THERMAL POWER PLANT cycle operate? Answer: Thermoelectric power plant operates according to the principle of the Rankine cycle. Question nine. Why generation voltage in Thermal Power Plant is between 11kv at 33kv? Answer: The edge cutting that carry a conductive move segment depends on the meaning of the contemporary you are carrying energy and the insulation of the conductor depends on the maximum voltage is able to bear. Therefore, while the design of the generator a more advantageous value is chosen between the quantity of modern and conductor voltage can resist. Power electronics Interview Questions Question 10. How efficiency of thermal plants can be improved? Some of the techniques through which the yield of the thermal system can be carried out are: increasing the temperature and voltage of steam from the turbine. Lowering the voltage inside the condenser. With the heating of the Among the unique stages between the turbine. Application eleven. Benefits and disadvantages of thermal power plant? Answer: Advantages: thermal power plants can be operated near the loading systems not like hydro and nuclear plants. It requires less space than the hydro vegetation and the construction value is much less. In progress or work prices are much less than diesel or gasoline vegetation. It can be able to take care of loading up for a positive period of time. Disadvantages: it emits inexperienced gas home and pollution reasons. Coal and ash cope with requests for a large region. Efficiency is low. Project of the Central Interview Questions Question 12. What is cavitation and cavitation disadvantages? Answer: The formation of air bubbles and water vapor on the water floor due to the reduction in the strain is named "cavitation". When water pressure reduces saturation similar to water temperature, the rapid water vapor formation and air bubbles starts. The bubbles is disintegrated with the violent action and this stress collapse can be very high. Fast education and collapse of bubbles reasons of the presence of steel floor holes. Cavitation further reduces the performance of the high hydraulic motor causing the honey contours combing the runner and blade that reduces power. Electronics and communications Interview Questions Question 13. What is the largest pump of the thermal energy plant? Answer: In thermal of the power plant of the pump power boilers (BFP) is the largest pump, it offers water to the boiler. Question 14. What are different types of steam boilers used in thermal power plants? Answer: Different boiler sorting used in thermal energy systems are: fire water pipe boiler natural tube boiler forced circulation boiler boiler once via boiler Question 15. What are different types of pulverizes? Answer: Different varieties of pulverizers are: sphere mill for pipes. Mill ring. Hammer mill. Friction type mill. Steam turbine interview questions Question 16. What is the purpose of pulverizaza? Answer: Pulverizers serve functions to, to dry coal and grind coal. Which grinding coal to the size of the 74microns. Question 17. What are the different auxiliary systems in the thermal energy plant? Answer: The handling and storage of coal, coal pulverizes a system remedy water, steam boiler, sanctures, ash treatment systems, steam turbine, traffic water gadgets, electrical systems, control and instrumentation, system of Pollution control and fire protection system. Nuclear power station Interview Question Question 18. What kind of cooling is expected for Generator in Power Plant? Answer: Hydrogen gas cooling is used for huge dimensions generators thanks to greater heat wear hydrogen potential. Hydrogen cooling is supplied for rotors and center of the generator. Water cooling is furnished for the alternator's stator. Operations Management Interview Question Question 19. What are different types of automatic switches used in the central energy power station? Answer: For a low voltage operation 415 / 220V vacuum switches or air destroy switches are taken. For the voltage scores of about 6.6 kV and beyond SF6 switches are taken. Question 20. How is Generator Transformer cooled down in central thermal energy? Answer: MVA Transformer generator electricity assessment may be the same as the alternator. So much heat could also be generated as a generator transformer is running. Forced forced oil (OFAF) Cooling air type is taken for of the generator. Interview Renewable Energy Questions Question 21. What are the different generator protections employed in thermal power plants? Answer: faults in windings, load protection over, heating more of windings or bearings, over speed protection, excitement protection loss, mobility operation protection, unbalanced excitement, single-phase or unbalanced unbalanced current Operating out of step protection, protection of sub-synchronous oscillations and safety fault to the ground. Question 22. What are the main electrical systems in the boiler room? Answer: The main electrical device is in thermal power plant turbine generator. exciter system. of the generator protection system. generator transformer. Transfer Tools HT / LT. Electrical switch. Question 23. What is the difference between safety valve and pressure reducing valve? Answer: Difference between the protection valve and relief valve Safety valve: the comfort valve is used on a filled container. For one of these valves the operating is proportional to the growth inside the vessel pressure. So the valve outlet is not unexpected, however slow if the stress is improved gradually. A remedy valve should relieve the pressure to save a situation on the pressure. It's a relief valve may also have an operator on it to help launch the valve in response to a management signal. The ability of PRV is normally small. Safety valve: This tool is used to A alleviation of a compressible imbottible ship. For such a valve hole is amazing. When it reaches the valve set stress, the valve opens almost completely. A safety valve is designed to relieve pressure without the operator's help and a safety or a mixture of protection valves valve, it is necessary to have a greater ability to relieve respect to the input power to the protected quantity. electricity system Interview Questions Question 24. cos'Â the pressure valve (PRV)? Answer: Image of voltage comfort valve. The remedy of the valve (PRV) is a kind of valve used to manipulate or limit the stress in a vessel or a device for the duration of a system overpressure. The main cause of a pressure reducing valve is the protection of life and property through the vent fluid from a pressurized vessel above. Many electronic structures, pneumatic and hydraulic exist today to control the gadget fluids variables, including pressure, temperature and flow. Each of those structures requires an electric source of energy of a few types, including resistance or the compressed air so as to operate. The stress-reducing valve must be able to work at any time, in particular during a duration of the power failure when the machine controls are not functioning. The PRV is fitted on the steam line of the standard to govern the stress of the road. The PRV is typically operated by means of pneumatic pressure. The PRV has worked according to the set voltage of the controller RHE. The valve set when the strain reaches the daily value. electrical engineering Interview Question 25. Question cos'Â the non-return valve (NRV)? Response: This is also called a valve in a way that allows the drift of the fluid in a single best path. © Since his call implies the way of restitution may be only one path of flow. All the meeting is provided with a hood valvole.Questa valves are usually used in the pump discharges and tensions of the steam water pipe. This device ensures that there is the back hills of the fluid from the fluid source. It has an input line Lines and different is the output line. There is an image of direction provided on the valve that displays the direction of fluid flow. Types of NRV: inclination of the valve disc test: this is a test of the type of disc valve. The disc was provided A fixed with a hinge that oscillates up and down. While the flow of the fluid within the line is lifted The fluid pressure and allow the fluid to drift inside the tube. When there is no fluid float in the circuit it closes due to gravitational force. Sphere test valve: here a round ball is used to fare fluid flow. The ball is loaded with spring that closes the valve while there is no fluid drift inside the line. The fluid pressure raises the ball and allows fluid to flow. TYPE NRV diaphragm A € Â, ~ "This is includes a rubber diaphragm balapper, which works on differential stress when the pressure inside the mountain is extra to open the diaphragm and allows the fluid to shape and while stress is " Equalized closes the diaphragm and drain fluid. Fluid. control valve- production ItA € s is the same as the oscillation look at only that here the valve mechanism is an external manager to manage or leverage available. elevator control valve- Here a thrust or disk is provided that operates to the fluid operating pressure. Question 26. What is steam traps and its function? Answer: Steam characteristic TRAP-E 'a tool is used in the steam pipe line condensate and gas discharge, preventing steam to escape through the road. It ensures that the steam is not wasted. This is an autonomous robotic valve that drains the steam condensate from a device containing. This is commonly provided in drains or steam before the steam exhaust valve. steam call types: - Mechanical Jobs seduces a precept of the difference in density between steam and condensate. This type of recall function according to the level of condensate inside the door if the condensation growth degree glide work and allow condensate bypass through the tube, when the level of the lower condensate is in close proximity to the valve and doesnâ € t allow condensation. Types of mechanical entice i) to float, ii) floating lever type, iii) inverted bucket-type, iv) open to cups. type thermodynamic steam bait - works within the precept of the distinction between property and thermodynamic steam traps condensate.This variety of work because of the change in the breath rhythm fluids As compressible and non-compressible vapor condensation begins offevolved there may be a temperature difference that allow the lure to operate. Types of thermodynamic type steam recall A i) Disc type ii) type of onifice. steam thermostatic type entice- A This trap works in the principle of a temperature difference between a vapor and condensate. Types of thermostatic steam type entice) bimetallic type, ii) type of metal expansion. Powerbuilder Interview Questions Question 27. What methods are used for steam boiler temperature control? Answer: We are able to control the temperature of the vapor by means of: using recirculation method Hot-gas petrol fumes is made to circulate for the temperature of the steam waiting. Imparting additional air providing excess air is to reduce the temperature of the oven for a few timing therefore control temperature. Burner tilting approach-Here the inclination of the burner are supplied by means of a pneumatic cylinder. The burner can be tilted 30 Â ° up and down the temperature control. Attenuation manipulate-This is the nice approach to the control of the boiler temperature. Here the attenuator A are provided for spraying water into steam in the steam pipe line. Ceramic thermal sleeves are A furnished to keep away from a thermal shock due to the difference of temperature of the steam and water sprays. cooking gasoline Elevation A € The temperature is controlled with the help deciding above or decrease elevation of the fuel burner. Interview Questions of Power Electronics Question 28. What is the effect of soot deposits in a boiler? Answer: The act soot deposited as a poor conductor of heat that reduce the charge switch heat and increase the temperature of the exhaust gas. Deposits block the direction of flue gas boom that drought loss. The deposit may also cause corrosion. Due to the fall of large soot that damages the pipe in dry ash conveying gadget. Question 29. What is priming the boiler? Response: E 'the sports amount of water droplets in the steam. witch ends in carryover of salt crystals on the fantastic heater and mills. Priming it can be achieved due to the alternating abrupt load and conservation High water level. Prevention of triggering and foam formation: A, the excellent remedy for foam formation and drawback is the shot up to TDS. The non-stop shot already owes a regulated being to hold a TDS at 3,000 to four, 000 ppm. More Blow Down Much Less TDS Ma Ma Blow Download is the extra boiler lack so that the blow down should be within managing level. Wind turbines interview Questions Question 30. What is the formation of foam boiler? Answer: It is the foam era in the boiler due to high high Of solids, natural to be counted, the bubbles are building on the boiler water floor and came out with steam. This is usually required due to excessive attention to solids in the boiler. water heater.

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