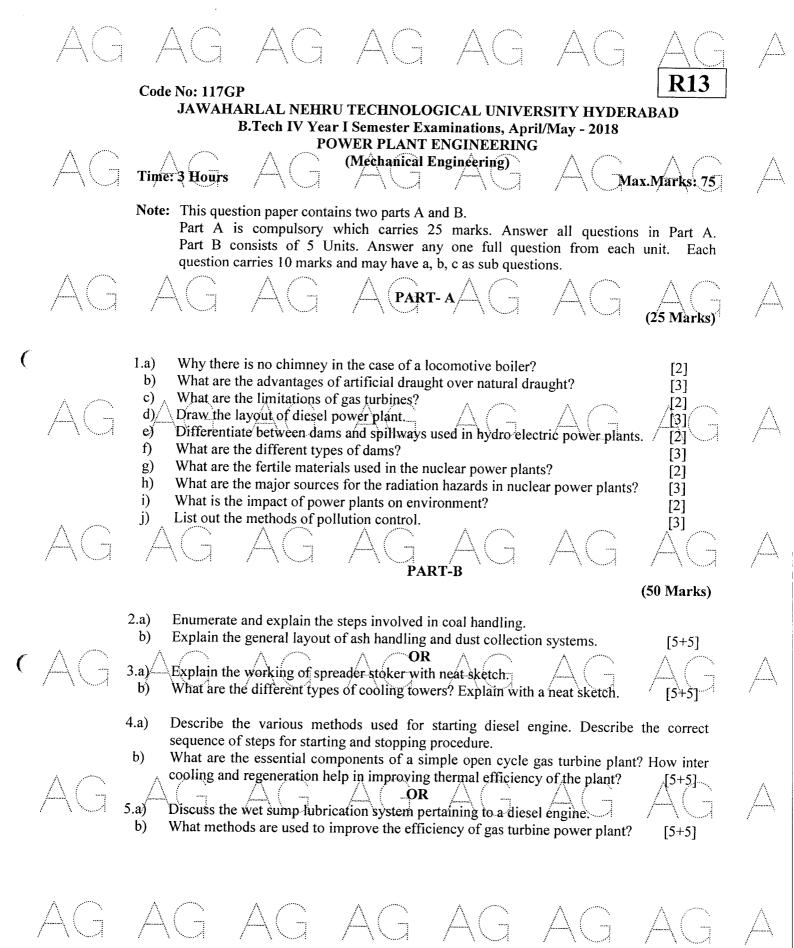
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## 6.a) How to make use of the tides for power generation based on their capacities? Explain the principle of operation. Give the classification and discuss the typical layouts of hydro projects. b) OR 7.a) What is a spillway? Why spillways are required? What are the different types of spillways? b) Explain with a neat sketch a pumped storage hydro plant, state its advantages. 8.a) Explain the construction and working of nuclear power plant with a layout. Describe with the help of a neat sketch, the construction working of a pressurized water. b) reactor. What are the advantages and disadvantages? 9.a) How the Graphite can be used in the nuclear power plant reactors? Explain the special requirement of Graphite in the reactions. List out the advantages and disadvantages of nuclear plants over conventional thermal b) The peak load on a power station is 30 MW/The loads having maximum demands of 10.a) 25 MW, 10MW, 5 MW and 7 MW are connected to the power station. The capacity of the power station is 40MW and annual load factor is 50 %, find: i) Average load on the power station ii) Energy supplied per year iii) Demand factor iv) Diversity factor. Explain the significance of: i) Load factor ii) Diversity factor iii) Plant capacity factor iv) Plant use factor. OR The following data is given for a steam power plant: Maximum Demand 25,000 kW; Load factor 40%, Coal consumption 0.86 kg/kWh; Boiler efficiency 85%; Turbine efficiency 90%; Price of coal Rs. 55 per Ton; Determine: i) Thermal efficiency of the station ii) Coal bill of the station for one year. Draw the load curve for the power requirement in India and discuss the methods to fulfill the part load conditions. ---ooOoo---