Namer Tejos Vaish Pole No - 1032/90061 1 PC-06 7 Brinciple of Green Technology 10 Assignment -1 13 Explain Atom Economy.
One of the fundamental and most important principly of 20 green chemistry is that of atom economy. This cesentially is a measure of how many atom of restante end up in the final product and how many end up in by products on waste The percentage atom coursely can be calculated as 100 times the vielative molecular mass (RMM) of all atoms used to make = wanted product & divided by the RMM of all ovortants. -The oreal benefits of atom economy is that it can be calculated at the overtion planning stage from a belonced rection capation. % Atom Economy = 100 th (RMM of desired products / RMM of all featouts) Write in frief about Integrated Pollution Prevention and Control (1880) Totegrated Pollution Brevention & Control (IPPC), to the mininge pollution from various industrial sources through the European Union as cetablished by the so-called TPPC Directive (Directive 2008 of 15 January, 2008. Integrated Pollution Brevention and T, Control). The relegation requires industrial and agricultural activities with a high pollution potential to true a permit. This possit can only be used if certain convincental conditions are met, so that the companies themselves bear responsibility for preventing and veducing any pollution they may cause All permit application must be sent to the competent authority of the ste concerned, which will then decide whether or not

to authorize the octivity. The IPPC Directive is bosed on several pourciples, namely an integrated approach, best available techniques, flexability and public participation. Mention in buil about the concept and methodology of inherently safer deligh. Inhountly ofer design (ISD) is a philosophy for addressing sofety issues in the design and operation of facilities 9 that use or process hozardous chemicals when considering 9 ISP, the designer trues to marge process rick by 9 cluminating of significantly reducing browners. Often the traditional approach to managing chemical 9 process safely has accepted the existence and magnitude of 1 hozards in a process and incorporated engineering and administrature controls to oreduce process suck where feasible, ISD provides more ordust and veliable risk management, and has the potential to make the chemical 1 processing technology simpler and more economical by diminating the head for expensive safety systems and provedures. ISD addresses the immediate import of single 0 events (chemical vections) on people, the emissionent property C and business. In many cases, an JeD also will be beneficial for other types of process viek, character bealth risk, or saich to consumers or product users

Mention in brief about how non-conventional energy resources are important in promotion of green technology. Non-convertional Renewable energy is a indegeneous source available in considerable quartities to all developing nations and capable, in principle of having a significant focal, vizional or national economic impact. The power plants based on ovenewable resources do not have any ful cost and hence, noglitable running costthey have low energy density and more or less there is no pollution or ecological umbalance peroblem. The use of non-conventional energy could help to consume foreign exchange and generate local employment if consumention technology are designed, manufactured, assembled and installed locally.