COMPONENTS OF GIS (Geographic Information system) The components of a Geographic information system (GIS) are essential tool for urban planning, disaster management and environment conservation. The key components include: Attempt and upload (1) Hardware proper questions for The physical devices andevanuation. Not notes GIS operations, such as: -> computers (Desktops ervers) -> GPS devices -> scanner and printers -> storage devices for large spatial datasets. 2 software Gis softwares provides tools for data capture, storage, analysis and visualization. Examples include: -> ESRI ArcGIS -> QGIS (open surce) -> GRASS GIS -> (900 gle Earth Engine 3 DATA Data is the core of GIS, categorized into: * spatial pata: It represents the geographic Location (e.g. maps, satelites imagery). A Attribute Data: It represents escriptive information about

spatial data (e-g, population linked to the city on a

map). sources include satelite imagent, surveys, censu

