Direct the oppositioner of sampling and quantication (4) " expans takiple to gainersord in DECENT the simportance of Eurose pre-processing on understanding the digital image, data. (A) Justify Image Chargers and understanding is Dicus the importance of bioms toic considering the current opplication. (4) Explain 'Singe apresentation'. (M) To create a digital image, need to connect the fortineous sensed data into degital foron This involves two processes; sampling and quantization scorpling rate determines the spadial hesolution of the digitized image. Digitizing the amplitude Quantization, involved in lunge processing, is a lass compression technique achieved by compressing a sange of values to a single quainters value. Frample, orducing the number of colors negaine to expresent a digital mage makes it purible to reduce its if To convert both of its assis (x, y), into a diget al format. since on inerge is conference not sust in its co-ordinate (x-oroso), but also in its amplitude (4 arois), so the part that death with digitizing of co-ordinates is been on sampling simpling to the process of converte a signal a luto a numeric sequence

Descreillance is the mountains of the believer activities, other changing information, usually of people for the purpose of influencing, managing, probeding servedence is very metal to do low and enforcement and government to maintain social control, suco gruzo and monitor threats, investigate curring activity with advent program such as information awareness programs, technologies such as bio metrics software. 4) Blometres: - Autherification of a person Banking, airport, electronic voting, defens sectors, secured fransaction, Banking oppical fastes include document resufication; Banker cheque analysis. How there takes can be achine vel efficiently. Image is so used to extract the hidden information in an obliterated image. Using possible to extract the hidden information . geans une vie 2) Pre-process is a common name for operations with images at the lowest level abstraction both enput and output full are intensity images. The aim of pre-processing to an improvement of the for further processing. Four algories of