(more?) reputition for (last y 16?

Give examples of the use of a block cipher to P940 provide asswance of confidentiality, integrity, timeliness, covertness and resistance to jamming. In each case give describe a possible application and indicate the mode of operation you would use.

Model answer

Confidentiality: in an email encryption system such as PGP, a block cipher is used in CBC mode to provide this.

Integrity: in back messaging systems, a DES MAC may be used to assure message integrity.

I meliness: in Nerberos, tichets which give access to resources contain a timestamp from the ticket granting sever, and are encrypted using DES CBC covertness: in steganographic systems, a stream cipher such as DES in OFB mode may be used to to collect pixels in a cover image, ar sound samples in an audio file, in which a menage is livided

Mesistance to jamming: Fire control radars typically delay the outgoing pulse train using a lag sequence which limits opponents to follower jamming or using enough power to obscure the seturn signal completely. A block eighter in OFB or CFB mode may be used for this CFB is better because of sliding window correlators