## moisses 2 Marks Joseph distribution of the

- Define S-DES with key generation concept?
- 1 The S-DES decryption algorithm takes an 8-bit block of ciphertext and the same 10 bit key can develop that ciphestext as input and makes the initial 8-bit block of
- Delist the steps involved in the process of Block cipher modes of operation?
- 1 Five modes of operations in the process of Block ciphes
  - Electronic codebook made (ECB)
  - Cipher block chaining mode (CBC)
  - Output feedback made (OFB)
  - Ciphes feedback mode (CFB)

  - (3) Give the applications of point of vulnerability?
  - Dx the LAN that the workstation is attached
    - of the wiring closet tapping the wires
    - \* communications links out of the wiring closet: invasive or inductive tapping
    - \* processors along the path to the outside; modifying the hardware or Software, etc.
- Analyze the issues in Traffic confidentiality?
- various issues arising in the placement of traffic flow confidentiality service and encipherment, traffic padding, and routing control security mechanisms in the open system interconnection os model are presented.

- Generalike in detail about key distribution?
- key distribution is a major cryptographic component to Secure communication. For privacy data must be encryp with keys which are distributed securely. ciph (cot , in put cod makes
- Define Randomness? 6
- @ Randomness (entropy) is the corthestone of Cryptorgraphy as it is used to generate session keys: The more random the numbers, the more secure the Cryptographics System.
- Evaluate the major tasks of pseudo random numbers?
- The random numbers are difficult and hard to find we use algorithm techniques (Sequence of numbers) If the algorithm is good it will cause for radomness
- 8
- Formulate what is BBs generator?

  The Blum-Blum-Shub (BBs) generator is one of the first and best known cryptographically secure pseudorandom bit generators.

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\* If pand of are primes and n=pg

P=9=3

xo = S2 mod name of some same

 $x^i = (x^i - 1)^2 \mod n$   $B^i = x^i \mod 2$ the willy savice a transfer on the lindly public

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9 Distinguish between end to end and link encryption?

## Link Encryption

- 1. performed by service provides not uses
- 2. Encrypts all data along a communication path
- 3. Encrypts routing data

End to End Encryption

- 1. performed by end-uses
- in transmit to remote end
- 3. louting information is not encrypted.
- 10 Explain the principle elements in KDC element?
- 1 The KDC has three main components:
  - An authentication server that perform the initial authentication and issues ticket-granting tickets for users
  - A ticket granting serves that issues service tickets that are based on the initial ticket granting tickets.
  - A principals database of secret keys for all the users and survices that it maintains.