(a) Dear the serial establish (precedence) graphs for S₁ and S₂ and state whether each achertule is scrializable or not. If a schedule is serializable, write down the equivalent serial schedule(s). not sendrable. non recoverable becomes Tyrend y after To watte Y Te is Committed First Serializable and serial schetule (T3 T7 T2) il strict schedule and any Cascadeless schedule is also removable also cascadeless (b) Determine whether S₂ is strict, cascadeless, recoverable or nonrecoverable and justify your answer. TI SULT X & Fred clots) TE, Ti Usis recoverable :-(To die commit bles Ti supplications Noil Comit Was alles To M run tecorurable STRICT of liverising light for a cincion X Ci is Ti · 12/5 Commit day Ti Lo costaddess 19,00 = Ti 3 X - sije " Nie wil Jesos cen Ti cuis mas i Ta ci X Citi

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2. Discuss the system of propagation of privileges and the revokation thereof Slide IT

Propagation: giving Grant of Privilege to other

accounts without knowledge of owner account

ex GRANT OPTION

Revokation: is desirable to grant a Privilege to auser temporarily

ex Owner grant Privilge to user For specific task and wants to revoke it after task end he use Revoke Commend

- 3. Consider the relation shown below using mandatory access control.
 - (a) Fill in the proper values for TC (tuple classification)
 - (b) How would it appear to a user with classification U?

Name

Ahmed

Hassan

National ID

123456789

234567891

(c) Suppose a classification U user tries to update the salary of "Ahmed" to 50,000; what would be the result of this action? And why is this necessary?

Salary

40,000 C

60,000 C

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Job Performance

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