3BCA3 20/001/2016 Strad) Date. UNIT: 1 * DATABASE MANIAGE MENT SYSTEM TNITRODUCTION TO DATABASE MANAGEMENT SUSTEM "* * "Der" of DBMIS" * OBAS is a collection of programe that enables users to wate and main tain a Database. DBrgs is a general purpose application stor system that faither the process of defining, constructing, manipulating and staring doutablise among warinus users & opplication () Defining a pritabase means specifying the Datatype, structione & constraints of the date to be cloved. (i) constructing the patabase is the process of storing the on some storage media which is controlled by DBMS (iii) Manipulating a Database include function to query the Databaux retreive specific data, upclate the database & so on. (is sharing a Databelse means allowing multiple deery & programs to access the Database simultancousty the Advantage & disadvantage of DBMS - the (a) Restricted unaethorized access * when multiple cuery share service to all then a DBMS should provide some service & all then sation mechanism. IT can be

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login password or certain proviledges to dff Lategories of 10x egu (6) Providing storage structure for efficient query processing +" DBMS must provide specialized data shautane to speed up search & sutrefues a the desired seconds. Helds like Inderes an used for these puspose. A Good DRIVE must be con ble of exceeding Auery efficiently. Providence storage structure for equient aury processing -> bc-C Providing persistent storage for data & sucords + A DBMS is used to store data & records persistently (permanent). It means the data & survey and kept in there original form & will not get compted modificatio (a) "Inforcing integrity constraintes" >"-DBNOIP should provide capability for defining & inforcing centain integrity & constrainter simple type of integrity constraints involves specifying the data type for each data Ptem (e) controlling Redundancy" >1/2

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BBMs is use to control & eliminate sudundancy fit occurs in a take MOLE * Redundancy means storage the some data and seconds multiple times "providing multiple uses inter fores" DBMS 10 used by many types of cueens with was ying levels of technical knowledge. Therefore, DRINGS should provide a udurety of user intenface. Both forms style interfaces & menu Duiven interfaces are commonly used known as GIOT -> "- "L' mitations of DBMS" -> "+ tages DBMS has some limitations with respect to traditional file processing systems This are as follow: (O) High initial investment in H/co, s/w & training. 16) Direnhead for providing security, concurrency epotol, recovery & integrity constraints. (O A DBMS is not able to operate. when two or more takes are seguired to be used as a single 10Bb * DIf Data models *

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