Date ___ / ___ / A ssignment - 1 1) What is OBMS? Explain its odvantages A doutabase management system (BDBMS) is a collection. of programs that manages destabase structure and control acciss to the data stored in the device. -> The DBMS serve as the intermediary return the users and the database. The database structur itself is stored as a collection of fills, so we can access the Latar in those fils through d'BMS. > The OBMS reciews all application requets and translate then into the complex operation neguired to fulfill House riquits. The DBMS hides much of the dotabase's entired complexing from the application program and users. information in a way that is accurate and effective.

and to manage the different databases it contains

(nor Farmance and 2011. (performance, security, availability, intergrity, etc.)
* Advantages of DBMS:-1. Roduction of Redundaciós: centralised contend of data.

by the DBA avoids unnecessary duplication of data. and effectively reduces the total amount of data storage. required. 2. Elimination of inconsistencies: The main advantage of avoiding duplication is the climination of inconsistence that tend to be present in redudant dothe plan. 3. Shared data: A database allows the sharing of data und its controls by any number of application perograms or drew 4. Integrity: - Centralized control can also ensure that adequate theirs are incorporated in the DBMS to peror

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	deta integrity. 5) Security: desta is of vitual importance to an exan organization and may be confided such confidential desta much not be accessed by unauthorized person
	5) Security - data is al 1911
	er an organization and man importance to an
	data much not by accessed confied such contral.
	by unauthorized hiter
10	what is Data abstraction ?
	Database system are mode up of complex data structures to ease the user interaction with data structures
	to again the 11100 to make do to the
	developers hide internal a lateral the
	is called data also traction
,	The three level of also to
	The three levels of abstraction are as:
	b) logical leul
	c) view level.
	route life a router at the second of the sec
<u></u>	Physical level: The Physical level of abstraction is the lowest level of abstraction that disoribes how the data is actually stored. The Physical level or internal schemes
	lowest level of alistaction is the
	of actually storage The Disco and a disoubs how the data
	which control the delication of internal schema
	which contains the defination of the stored record
<i>b</i>)	
	logical level: The logical level of data abstraction defined what date are actually stored in the database
	augures aunat data are actually stored in the database
	and what realtinship exists among those data. In realting
	DBMS, the conceptional scheme desorbes all relations
	that are stored in the dolabase.
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	men level. The is the highest level of approximences.
	Seen by a user. This live of allerations only the intraction
	New level: This is the highest level of alubraction as. seen by a use. This level of alustraction only the part of entire database which sails to simplify the interaction
	with the system
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level.	user 1: user 2					
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Inlong	Internal view					
luul	2 2 12 11 marioux Punction of					
3.	Who is database administrator 9 Explain the vorious Punction of					
-	OBA.					
	a sold of unadout District as					
	central control who has such contral					
14.5/•	The following are the Functions of a database administration.					
1 3 1	With the Care of the Action of the Care of					
(?)	Schema defination: The database administrar oreally the database					
	scheme by executing of DDI statement scheme includes. Hhe logical structure of database table (realtion) like					
-	the logical structure of dolars fame remarkers are					
	data type of ally buly lingth of and buly while					
١٠٠)	constraints ate					
(11)	ii) Storage stouctur and acurs method defination: - database tally or indexes are stored in Flat flux, hears, 13+ tous.					
	famy or masses are stored in that flus, hears, 1st Irus					
0.00	ate etc.					
7117	schema and physical organization's modification's the					
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	DBA caroin out changes to the existing schema and					
0\	physical organization					
· (0)	Granding authorization For data modification: The DBA provides different acess rights to the usury according to this					
4	premius argenus auss rights 10 the wird according to this					
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	ordinary usors might buy 101						
	order while 18 you so I want restricted						
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	data while of you go to up in the hierards to the administrators you will get more accurs right.						
	acutou Maintaine						
0	tourse of one 3 somethy raiting male						
	Poutry Maintairancy: Som of the rautine maintainers activists of DBA oregiven helow: - Taking backer of database priodicals. - Ensuring enough disk space is applied.						
	- laving sucreip of dalabase paradically						
	- Ensward mough disk spare is availte all 4. to						
	On formal John running on the database						
	- Ensuring enough disk space is availle all the time. monitoring jobs running on the databas. - Performance turing.						
gh.	why data models are used in database? Eaplain its						
	components.						
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Alternati keys a column on group of column in a tall. Heat uniquely identify every now in that tall. A tall only one can have multiple choices for a primary key but only one can he set as the primary key. All the keys which are not	Phimory key. Phimory key is a column on gray of column in a tally that eniquely identity every now in that tally. The perment, key can't be a deplicate meaning the same value can't appear more than once in the tally. It tally carnot have more then ene primary key.	a destabase talle. White a note of the Fellowing.	degree: The degree of a realthouship is the on that porticipate (associate) in a realthoush to I cardinality - The term coordinality refers to I	situation that only between two notions of the other side. When one table has a foreign key of the other side. Typhio- A single now of a table which contains a single gerood for the relation is called a typh.	in a dotabase. Table in adjance of database is a grand in a realisment of database is a	Carlin	Saark

adent en strerej ertity bether entity Continue o streny entity Continue o streny entity hore o streny entity one o streny entity o bette o lund entity Grenvalizat o hutity ameny entition	attention of property on chandractic of ance of may contain any numbers of attention on an consideration of attention on a consideration of attention of attentio	Candidate key are called an alternate key is a super key with rat uniquely identify the primary key should be set of attained they is a super key with rat may be the cardidate key. Every table must have attained to set of the primary key should be setting to andidate keys but andy a single primary ky.

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Page No.	manipulate date itself. For Erample insert, update, dutete	ODL is Data defination for guades which is used to definite structure for Enample: guades tall, after tall, are instruction in SOL.	b antitus Many entitus on associated with man entitus.	entitus for enc. A Company is as	have their own attituted as well. Coplain realtheachin with & its types. There are four realthanchin in database.	Specialization is a lap-down approach in which a high specialized lower - lu specialized lower - lu specialized lower - lu specialized specialize	Saathi