2311-0001	
EIFT RAI-SA Lunar	143
erol BAI-SA Lunar Bail Solar	201
(12)	
(a) Problems with file system data management	
(a) Problems with file system data management ci) Data redundancy & inconsistency: Multiple colies &	<i>'</i> 4
Carrie data man exist.	. 1/2
co) Lack of data chaping & isolation: Difficult to once	ell
$\mathcal{L}_{\mathcal{L}}$	
3 No data integrity & security: Constraints & rules	980
Land to emproyee.	
(4) Paor concurrency control: Multiple users widating dat	To.
may lead to contlicts.	. 1
(2) D'Africult data access: Complex Programming is regu	useg
to retrieve data.	
(5) H comfosite trimory key consists of Two or more	
Cs) A composite Primary key consists of two or more attributes that together uniquely identify a record. For example: In a tool le curollement (student ID, C	Th
	Mile m
Corade) - Student ID alone is not unique (a student can euro	<i>M</i>
· Congreth alone is not unique (many students can	Norns
in the same course).	<u> </u>
· But (student IB, Carpe ID) together uniquely ident	hitied
Eder Record.	

	Lunar 143
1٠١عيسوي	Solar 201
co Obexations performed by the application progr	rester me
DRMR is used:	
co bata definition: execting or modifying dat	abase structure
(table, Schemas).	
Eleb, portably, pritagne: unitalnfinan stad is	ing & retrieving
lata.	
(atomicity, consistency, isolation, dispositify).	fexities.
(atomicity, consideray, isolation, disability).	
is a microscopic of the string legacy & margoritation (is	2 PORMISSONE
(3) GAROR Prompting of GECONERY: ENEURING your	consistency
in cose of Pailure.	•
	-
(d) in Physical data indefendance is cosing to	ichieve.
a logical data independence is more diffic	alt because
Joseph in conceptual schema (eg. addir	ref a new
Lauges in conceptual schema (eg. addir field to a table) often require changes in	, application
programs or views.	
. 3	
(e) (1) A suberkay is any set of attributes that union	July identifies
d occord.	
(2) A Ican is minimal suferlay (no entra att	sibute can be
Consued & STIN uniquely identified records.	
(3) For Student (Koll No, Malue, Email)	
Roll No ; a key & superkey.	
(MollNo, Name) is a superficery but not a	Icey because
Name is unecessory for unique identification	
The state of the s	