## DBMS TT 1

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Typia

## SECTION - B

Define physical Data Independence and Logical Data independence in three schema architecture of DBMs.

List down the advantages

PHYSICAL DATA INDEPENDENCE is the capacity to change the internal schema without having to change the conceptual schema. Hence the enternal schemas need not to be changed as well changes to the internal schema may be needed because some physical fles were reorganized to improve the performance of retrival or update. If the same data as before remains in the database, we should not have to change the conceptual schema

conceptual schema without having to change the enternal schemas or application programs. We may change the enceptual schema to empand the database, to change constraints, or to reduce the database by removing a record type or data type.

Generally physical data independence enists in most databases and file environments where physical details are hidden from the user applications remain unaware of these details on the other hand, logical data independence is harder to achieve because it allows structural and constraint changes without affecting application programs - a much stricter requirement

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	B = 27 DN DHZ
	ADVANTAGES OF 3 SCHEMA ARCHITECTURE
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• 2	MAINTAINABIUTY: Because each scheme is independent,
	updates and changes can be carried
	without ejecting others
hiv.	Sand i ustrano on a fine instrum And Invient 2nd 1
18M	SCALABILITY: Because schooling is based on deployment
- 5	9 layers, scaling out an application is
St b	se reasonably straight forward
115 9	resided records some prisher that were neorgy
11.	FLEXIBILITY: Because each setter a tier can be managed
. 0	or scaled independently, lexibility is
Smil	a distance increased in a sond too plants to
	AVAILABILITY: Applications can emploit the modulal architecture
N. Tra	genabling systems using easily scalable
7-,5	genabling systems using easily scalable components thus increasing availability
	and the separate on Linear of white testamone
, .C*	REUS EABILITY: Components are reusable
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FOR EDUCATIONAL USE

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