

[illegible]

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Roll No. :- 64

class :- BE - IT

Sem :- VII

Subject :- Artificial intelligence

DOP

DOC

Mark

sign

Difference between STRIPS and ADL

Sr. No.

STRIPS

ADI

1. Stand For

1.	Stand For	Stanford Research Institute Problem solver
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Action	Description	Language
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2. Literals allowed in states

2. Literals	Only Positive.
allowed in	E.g. Intelligent
states	1. Beautiful

Positive as well
as Negative.
E.g. ~ Stupid 11
~ Ugly

3. Assumption for unmentioned literatures

3.	Assumption closed world	
	for unmentio-	Assumptions: Un-
	oned literals	mentioned literals
		are False

Open World Assump-
tions: Unmentioned
liberals are
Unknown

4. Equality

4. Equality or No Support

Equality predicate $(x=y)$ is Built-in.

5. Types

5. Types	No Support
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Supported.
Variables can
have types \rightarrow
 $p: \text{Person}$

6.	Effects
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6.	Effects	Effects are conjunctions
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conditional
Effects allowed
(when $P:E$)

7.	Effect
	$P \wedge \sim Q$
	means

7.	Effect	Add P & Delete
	$P \wedge \sim Q$	Q

Add $P \vee I \sim Q$
Delete $\sim P \vee I \vee Q$

Sr. No	Parameters	STRIPS	ADL
8.	Goals	only ground literals	Quantified Variables
9.	Goals	Goals are conjunctions	Allow conjunctions & disjunctions : ~ Poor / \ (Famous / \ smart)
10.	Schema includes	Action name parameter list Precondition Effect	Action Name Parameter list (optional) groups of clauses labelled as Precond, Add, Delete and Update (optional)
11.	Modelling actions in real world applications	Not suitable	Suitable (This inadequacy of STRIPS led to development of ADL)