Date:

1 What is OHLP Explain about the importance of modeling?

the unified modeling language is a graphical language for oddo that gives a standard way to white a software System's blueprind & It helps to visualize, specify, construct and document the artifacts of an object-oriented System.

Importance of modeling:

\* A model is a Simplification of reality.

\* A model provides the blue prints of a System.

+ Models may encompass detailed plans, as well as more general plans.

I we build models so that we can better understand the system we are developing.

+ Through modeling, whe achieve facus aims:

1. models help us to visualize a system as it is on as whe want it to be.

2. Hodels permit us to specify the structure (or behaviour) of a System.

3. Models give us a template that gives rowquides us in constructing a System.

4. Models document the decisions whe have made.

"whe build models of complex System because whe cannot comprehend such a system in its entirely.

Preparing Today's Students to define Tomorrow's World....

	OCHHIAI COMMININE
2)	what are the things available in unie
	things:
	In things we have following.
	* structural
	* Behavioural
	* Grouping
	* Amotational.
	Structural things:
	the nouns of one models; usually the state parts of
	the System in question
	class:
ed!	An abstraction of a set of things in the problem domain
	that have similar properties and or functionality.
	Interface:
	A concention of operations that Specify the Services renedeed
	by a class component.
	couaboration:
	A collection of une building blacks that work together
	to provide some functionality with in the System.
	use case:
	An abstraction of a set of functions that the System
	performs; a use case is 'realised' by a collaboration.
	-Active class
	A class ulhose instance is an active object; an active
	object is an object that owns a process conthread.
	Component:
	A physical part of the System.
1	purpose for all the office.

### Node:

-A physical element that exists at run-time and represents a Computational resource.

### Behavioural Hings:

The verbs of une models; usually the alynamic parts of the System in question.

### Interaction:

Some behaviour constituted by messages exchanged among

### -state machine:

A behaviour that specifies the sequence of states of an object goes through during Its lifetime.

# Grouping things:

the organisational part of the UML model; provides a higher level of abstraction.

## package:

A general purpose element that Comprises un elementsstructural, behavioural (or) even grouping things.

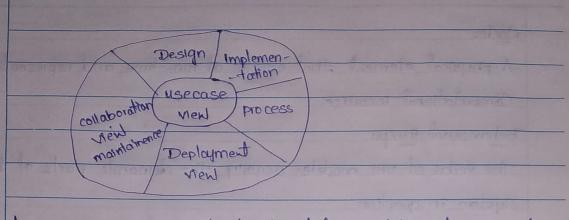
# Annotational things:

The exploratory part of the UML model; adds information/

### Notes

A graphical notation, for attaching constraints and or comments to elements of the model.

# 3) Explain about the architecture of uni?



of a System.

\* These perespectives are design implementation process and deplayment.

the centre 95 the use case view which connects all these long perespectives.

A use case represents the functionality of the System hence other perespectives are connected with use case.

Design:

- Design of the System consists of classes, Interfaces and

\* une provides class diagram, object diagram to support this.

\* It defines the components assembled together to make a complete physical System.

of the Component diagram is used to support the implementation perespectives.

process:

\* process defines the flow of the System.

I Hence, the same elements as used in absign are also used to support these perespectives.

	Deployment View:
	* Deployment represents the physical nodes of the System that
	forms the hardware.
	* UML deployment diagram is used to support these perespects
4)	Explain about the relationships available in UML?
	Relationships in uni:
	Articulates the meaning of the links between things.
	Dependency:
	A semantic relationship where a change in one thing causes a
	change in the semantics of the other thing.
	Notation:>
	carrowl-head points to the independent thing)
	Association:
	A structural relationship that describes the connection between
	Iwo Ihings.
	Notation:
	Generalisation:
	A relationship between a general thing and a more specific kind
	of that thing called the "child" or "Subclass", such that the
	latter can Substitute the former.
	Notation:
	Realization:
	A semantic relationship between Itwo Things where in one
	specifies the behaviour to be carried out, and the other carries
	'ait' the behavious.
	"a collaboration rentizes a use case"

Notation:
carronl-head points to the thing being realized)