## 190050820001

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Date 25 05 202

2nd Sessional Test 4th Comester, Comp. Engy. Subject - Object Oriented Programming using Jana Section - A Aus-I Access Modifiers-It helps with the Wolbility of a variable or method: It is of a) Public. c) Protected d) Private a) Publices In public, the variable or class their child class, everyone. 6) In Package - The variable or nethod can be used in package only. Classes that are not in package cannot use it. c) Protected - By protected, now the variable or method can be used by only child closses of that class even they are in another package but child class only-

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ď	Private - Ry and in malvate are and law	
1	Private - By applying private, no one can use its variable or method of someone's class even his child class can't access	
	alors and bis child alors cont occess	- 4
	it's con variable or method.	-/
	Validable of rections	_
- Tarte vin dela ci, Ora-		_
ili	Main advantages of interitance -	_
		_
	· widely used to solve real world	_
	problems.	_
5	· Inheritance is of many types that's	5
· · · · · · · · · · · · · · · · · · ·	· Inheritance dépicts a child-parent	
	· Inheritance dépicts a child -parent	1
	relationship between objects.	_
	· Code reusability is there in inheritance.	_
	· Code reusability is there in inheritance.  · Child class inherits all the properties	_
	and behaviour of parent class using	_
	MACHITANCE	
	· It reduces time for coder to retype	
	· It reduces time for coder to retype  the code again for any child class.	
<del>- 4 - 4</del>		ď-
* 1		H
10)	Constructor Chaining-	5
	Constructor chaining happens when	<u>.</u>
	some new properties are adoled into it	_
	Some new properties are added into it	
	overtime: This makes a chain of	
	constructors as the the objects made	
	its parent class constructor refers to	
	113 parent class constructed that's how	-
	the concept of constructor chaining works.	

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1) Explain the keywords i) this - this keyword is used when whe i.e. where the method is made is the same class in which we are calling -> super keyword is used when we have to call: the method of parent class. Java constructor -Constructors are used for Java to create objects in a class. Java constructor can be used to make class related objects with ease. Java method-Method in java is the behaviour of class objects. As in the real world all objects (R-g-person) has

some properties and some behaviour. So, the behaviour for objects in Java is defined as method.

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	C. A. D
	Section - B
1 - 2	Interitance -
Ans-3	Inheritance is a concept by
age against the second	- which child classes inherits the
	variables and methods of their
Control of the Contro	super class / parent class.
0.00	This cought is highly used to solve
	This concept is highly used to solve many real-world problems using Java.
	process process
•	Inheritance is of five types:-:
<b>a</b> )	Single Inheritance:
,	keyword extends specifies that the
	properties of the huber class name are
	properties of the super class name are extended to the subclassname.
	rasent class - english class -
-	- In this type of inheritance, there
The state of the s	is only one panent and child class
	in it.
6)	Multi-level inheritance:
,	in few stant
	In this types of inheritance
electric en capação	parent class has a child class and
~	parent class has a child class and that child has its child class
	and this can be extended as per
	the needs i.e. when there are child
	class of child class then it is
	known as multi-level of inheritance.
The county of th	

## 190050820001-11 Page No · Class B extends Class A Class C externeds Class B. c) Multiple Inheritance -This concept can't be applied directly in java; for this interface In this type of inheritance, there are two or more parent class have a same child class which means the its all parent classes. Hierarchical Inheritance d) Fu this type of inheritance, there is a child-parent or father-gon relationship in a hierarchical manner. It means all the properties and behaviour of upper class are inherited to lower class. By using this concept,

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	many real life problems can be solved.
e)	Hybrid Inheritance -
	This is not any other inheritance
	This is not any other inheritance itself but it is a combination of all other inheritance like single, multi-
	level, hierarchical inheritance.
,	Hybrid Inheritance can be complex but
<u></u>	is very useful for some hard
	problems.
and the second	
	Class A
i i	Class C
	Control of the Contro
	· instrument the state of the s
	Add to the same of
	Class D
	Hybrid Inheritance:
	Hybrid Inheritance:
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Situ	