

Answer 1

Random Access Memory

	Big	Little
0001	8	4
0002	4	9
0003	9	4
0004	4	8
0005		

Answer 2

In order to support RPC, any data type passed as an argument or returned as a result must be flattened and the individual primitive values are represented in an external format. An agreed standard for representation of data structures & primitive values is called an external data representation

Two alternative approaches to EDR & MAR

CORBA's common data representation: External representation for the structure & primitive types that can be passed as arguments & results of remote method invocation in CORBA.

Java's object serialization: Flattening & EDR of a single object or tree of objects that may need to be transmitted in a message or stored on a disk. It is for use only by java .

Answer 3

```
a) Public class Department implements Serializable {  
    private String name;  
    private int no_of_students;  
    public Person(String a, int b)  
    {  
        .....  
    }. // Error is not in this line  
}
```

b) No

Department d = new ("CS",100);

Department	Version Number	H0
2	String name	int no_of_students
2 CS	100	H1

Answer 4

<i>32 bits</i>	<i>32 bits</i>	<i>32 bits</i>	<i>32 bits</i>	
Internet address	port number	time	object number	interface of remote object

Unique over space and Time

Uniqueness is achieved as shown by the field in the representation

- Internet address and port number makes it unique for a specific computer and a process.
- Time and object number makes it unique within a process.