Total No. of Questions: 10]	SEAT No.:
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			VANCED COMPUTER PROGRAMMING (2012 Pattern) (Semester - I) (Elective - I)	
		2 Hou		s : 70
Insti			o the candidates:	
	1)		ve Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8,Q9 or Q10.	
	<i>2) 3)</i>		ures to the right indicate full marks. ume Suitable data, if necessary.	
	,			
<b>Q</b> 1)	a)	Exp	plain with examples Object Transfer service using Path Reversal	l. <b>[5]</b>
	b)	Wha	nat are Locks? Explain Distributed Lock services using Timestamp  OR	)s.[ <b>5</b> ]
Q2)	a)	Wh buff	nat is bounded buffer? How semaphores are useful in bourfer.	nded [5]
	b)	Def	fine Service oriented architecture. List any four SOA characteristic	cs. <b>[5]</b>
Q3)	a)	Wha	nat is auto-boxing and unboxing? When does it happen in Java?	[5]
	b)	Wha	nat is a thread? Describe the complete life cycle of thread.	[5]
			OR OR	
<b>Q4</b> )	a)	Wri	ite an applet for each of following graphics methods.	
		drav	woval(), drawrect(), drawline(), filloval()	[5]
	b)	Exp	plain the following with servlet.	[5]
		i)	How can we create deadlock condition on our servlet?	
		ii)	For initializing a servlet can we use constructor in place of in Why?	nit()?
		iii)	How can you get the information about one servlet context in an	other

*P.T.O.* 

<b>Q5)</b> a)	What is cloud computing? Explain its framework model in detail. [9]
b)	What is Ajax? What are Ajax applications? What are the advantages and disadvantages of Ajax? Also write difference between AJAX and JavaScript.  [8]
<b>Q6)</b> a)	What is difference between web services and software component? How do we create a web service in Java? Give suitable example of web service in Java.  [9]
b)	What is EJB? How it is different from RMI? Explain in detail web services and software component. [8]
<b>Q7)</b> a)	Write a short notes on Hadoop Ecosystem. Also explain Features and advantages of Hadoop. [8]
b)	Write short notes on:  i) MongoDB  ii) AJAX  iii) RDBMS verses Hadoop.  OR
<b>Q8)</b> a)	What do you mean by Hadoop YARN? What are the failure handling in YARN? [8]
b)	
<b>Q9</b> ) a)	Explain with examples ETL Processing. [8]
b)	Explain the different execution modes of Pig.  OR  [9]
<b>Q10)</b> a)	Explain with examples Hadoop Daemons, MongoDB, Word-Count Program and MapReduce function. [9]
b)	Explain the functionalities of Mapper, Reducer, Combiner, Partitioner.  Also write searching and sorting using MapReduce.  [8]