	Utech
Name:	
Roll No.:	A Street of Samuely and Explana
Invigilator's Signature :	•••••

CS/B.TECH(CSE)/SEM-8/CS-802E/2012 2012

ADVANCED JAVA PROGRAMMING

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Multiple Choice Type Questions)

			•	-	• •				
1.	Choose the correct alternatives for the following:								
								10 × 1	= 10
	i)	Tree	e based	Parser is					
		a)	SAX			b)	DOM		
		c)	DTD			d)	none of	these.	
	ii)	Whi	ich HTT	TP methods	s are u	sed	to show	the client	what
		the	server	is receivin	ø?				

a) GET

b) PUT

c) TRACE

- d) RETURN.
- iii) Which method of HttpServletResponse is used to redirect an HTTP request to another URL?
 - a) sendURL()
- b) redirectURL()
- c) redirectHttp()
- d) sendRedirect ()

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iv)	Which HTTP methods are not considered idempotent?				
	a)	GET b)	POS	ST Annua (y Exercising and Exellent	
	c)	HEAD	d)	PUT.	
v)	Which of the following methods are not declared in				
	HttpservletRequest as opposed to in ServletRequest ?				
	a)	getMethod ()	b)	getHeader ()	
	c)	getCookie ()	d)	getInputStream ().	
vi)	Session Beans represent				
	a)	process	b)	Data	
	c)	Stack	d)	none of these.	
vii)	When using a RequestDispatcher, the use of which				
	methods can often lead to an IllegalStateException ?				
	a)	read	b)	flush	
	c)	write	d)	getOutputStream.	
viii)	Which are valid JSP implicit variables?				
	a)	stream	b)	context	
	c)	exception	d)	listener.	
ix)	Give	en a JSP page with line			
	\$(10	01% 10)			
	a)	1	b)	10	
	c)	1001	d)	101% 10	
x)	Which of the following tools is used to generate the				
	stubs and skeletons for a remote service?				
	a)	javac	b)	rmic	
	c)	java	d)	rmigegistry.	



GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

- 2. Discuss about the different Tier architectures.
- 3. What are the different approaches of Session Tracking?
- 4. Why do we need dynamic webpage and active webpage? What are the disadvantages of static webpage? 3 + 2
- 5. What do you mean by DTD and XSD ? Give suitable examples.
- 6. Explain LDAP tree structure with suitable example.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- 7. a) What is Applet? Describe the life-cycle of an applet.
 - b) What is the difference between HTTP servlet and Generic servlet?
 - c) What are cookies? Briefly explain at least two ways by which we can create a cookie.
 - d) "HTTP protocol is a stateless protocol". Explain briefly.

$$2 + 3 + 4 + 3 + 3$$

- 8. a) What are the uses of Serialization?
 - b) What makes J2EE suitable for distributed client tier applications?
 - c) Describe JSP life cycle.
 - d) What are scriptlets and declaration in a JSP page. Explain with examples. 3 + 5 + 3 + 4

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- 9. a) What is EJB ? Briefly discuss the different types of EJB.
 - b) Compare EJB and JavaBean.
 - c) What are the EJB containers?
 - d) What are the differences between Type-1 and Type-4 JDBC drivers? 4 + 4 + 4 + 3
- 10. a) Why are XML documents useful with Java?
 - b) Name the packages which define all the interfaces of the SAX parser.
 - c) What is the advantage of XML?
 - d) Write a Java program which will display the elements of the following XML file :
 - <Employees details>
 - <Employee>
 - <Emp_Id>E001</Emp_Id>
 - <Emp Name>B.GATES</Emp Name>
 - </Employee>
 - <Employee>
 - <Emp Id>E002</Emp ID>
 - <Emp Name>P.C.SIRCAR</Emp Name>
 - </Employee>
 - </Employees details>

3 + 3 + 3 + 6

- 11. Write short notes on any three of the following:
- 3×5

- a) JINI
- b) JAXP & JAXB
- c) JNDI
- d) LDAP tree structure
- e) Benefits of using JDO.

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