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BRAINWARE UNIVERSITY

Term End Examination 2018 - 19

Programme – Bachelor of Science (Honours) in Computer Science

Course Name - Advanced Java

Course Code - BCS 502A

(Semester - 5)

Time allotted: 3 Hours Full Marks 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group -A

		(Multiple (Choice Type	Question)	$10 \times 1 =$		
1.	Choose the correct alternative from the following						
(i)	In MVC architecture, 'view' component is basically						
	a.	HTML	b.	JSPs			
	c.	EJB	d.	Java Beans			
(ii)	Applet is an example of webpage.						
	a.	Static webpage	b.	Active webpage			
	c.	Dynamic webpage	d.	None of these			
(iii)	Superclass of HTTP Servlet is						
	a.	Servlet	b.	JSP			
	c.	Generic Servlet	d.	Cookie			
(iv)	Which of the following tools is used to generate the stubs and skeletons for a remote service?						
	a.	java	b.	rmiregistry			
	c.	javac	d.	rmic			

(v)	Given	a JSP page with the line: \$ {101	% 10};	The output is			
	a.	1	b.	10			
	c.	1001	d.	101 % 10			
(vi)	Which HTTP methods are used to show the client what the server is receiving?						
	a.	Get	b.	Return			
	c.	Trace	d.	Options			
(vii)	Which type of objects can store attribute?						
	a.	HttpServletRequest	b.	ServletConfig			
	c.	ServletResponse	d.	RequestDispatcher			
(viii)) Which deployment descriptor elements may appear before the < web-app > eleme						
	a.	< listener >	b.	< context-param >			
	c.	< servlet >	d.	No XML element may appear before the < web-app > element.	e		
(ix)	JSP ta	gs are interpreted by					
	a.	JSP compiler	b.	JSP debugger			
	c.	JSP engine	d.	JSP container			
(x)		are compiled into					
	e.	Servlets, JSP	f.	ASP, JSP			
	g.	JSP, ASP	h.	JSP, Servlets			
		Gro	oup – F	3			
	(Short Answer Type Questions) 3						
Ansv	ver any th	aree from the following					
2.	(a) W	hat do you mean by J2EE?			2		
	(b) Ex		3				
3.	(a) W	hy do we need dynamic webpage	and act	ive webpage?	3		
	(b) What are the disadvantages of static webpage?						
4.	How ins Java pro	-	OBC pro	gramming? Explain with a proper	5		
5.	Explain	MVC architecture relating to J2F	EE with	figure.	5		
6.	Compare between 3-tire and n-tire architectures. 5						

Group - C

		(Long Answer Type Questions)	3 x 15 = 45
Ans	wer a	ny three from the following	
7.	(a)	What do you mean by collection framework in java?	2
	(b)	How 'LinkedList' class is used to store data? Explain with proper java co	de. 5
	(c)	How 'HashMap' class enhance data access strategy over 'LinkedList' cl Explain with proper example.	lass?
	(d)	What is the utility of 'StringTokenize' class?	2
8.	(a)	What is the goal of Collection Framework property?	2
	(b)	Explain the different collection Interfaces.	4
	(c)	What is features in "ArrayList" class?	3
	(d)	Write a Java program to store various data in 'arraylist' and traverse it.	6
9.	(a)	What is RMI?	3
	(b)	What are the differences between RMI and CORBA?	2
	(c)	How the various steps are maintained to handle a remote object through R Explain with proper java code.	MI?
10.	(a)	What are ear, war and jar files?	3
	(b)	What are J2EE Deployment Descriptors?	2
	(c)	Explain RMI architecture with suitable diagram.	8
	(d)	What is the difference between RMI and RPC?	2
11.	Writ	te a short note of any three of the following.	3x5
	(a)	ODBC	
	(b)	RMI Registry	
	(c)	User Define List in Collection Framework	
	(d)	Result Set in java.sql package	
	(e)	Client-Server architecture	
