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ADIT/BIT PROGRAMME

ຽ	Term-End Examination
7	June, 2010
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CST-301 : INTERNET TECHNOLOGIES

Note: All questions from Section A are compulsory. All objective type questions carry one mark each. Answer any two questions from Section B.

SECTION-A

In question 1, if you feel that none of the choices offered is correct, then mark "0" as your answer.

- **1.** A Java method can return values of type :
 - (a) boolean
 - (b) long
 - (c) user defined object
 - (d) All the above
 - 2. Which of the following is true for parameter 1 passing ?
 - (a) Primitive data types are passed by value; objects are passed by reference
 - (b) Primitive data types are passed by reference;objects are passed by value

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- (c) Both are passed by value
- (d) Both are passed by reference
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- 3. A try block must have :
 - (a) A finally clause
 - (b) At least one catch clause
 - (c) Both a finally and at least one catch clause

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- (d) At least one catch or a finally clause
- 4. Deadlock errors can be difficult to detect 1 because :
 - (a) the code involved is complex
 - (b) the condition may occur only rarely
 - (c) the condition depends on native methods
 - (d) At least 4 threads have to be involved for it to occur
- 5. An interface :
 - (a) must have at least one method
 - (b) must not have any data variables
 - (c) must implement at least one method
 - (d) none of the above
- 6. The exec() method allows us to :
 - (a) Invoke a executable program from within a method
 - (b) Terminate a running thread
 - (c) Start a new thread
 - (d) All of the above
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7.		hange a string object one must first copy it	1
	to :		
	(a)	Another string object	
	(b)	A string Buffer object	
	(c)	An Array object	
	(d)	A Char object	
8.	The	files of any package must be defined in :	1
	(a)	Must all be defined in one file	
	(b)	Can be defined in any number of files	
	(c)	Can be defined in up to 4 files	
	(d)	Depends on java implementation	
9.	Pare	ntheses are used in expressions to :	1
	(a)	Change operator precedence	
	(b)	Speed up your program	
	(c)	Slow down your program	
	(d)	Improve security by making your program	
		more difficult to understand	
10.	Whe	ere two scopes are nested ?	
	(a)	Objects in both are visible to each other	
	(b)	Objects in the outer scope are visible to the	
		inner	
	(c)	Objects in the inner scope are visible to the	
		outer	
	(d)	Objects in either are not visible to the other	
		scope	
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- 11. Write HTML code to make a simple wedding 10 website.
 - (a) Have a homepage that shows a video clip
 - (b) Make a simple navigation scheme
 - (c) Give information on various events/ ceremonies
 - (d) Give information on the couple
 - Note: Make and state any needed assumptions.

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SECTION - B

Answer any two questions from this section.

- 12. (a) Write a Java program to input two numbers.
 8 Find their Arithmetic, Geometric and Harmonic means and arrange them in descending order.
 - (b) Write HTML code to place three images of 7 size 100×100 pixels on the screen horizontally irrespective of the size of the browser window. Below the images place an unordered list of 3 items in small italicised blue font. The first image or first item in the list both take you to page 1 of the site, and likewise for image 2 and item 2 as well as image 3 and item 3 that take you to pages 2 and 3 respectively.
- 13. Distinguish between the following with an appropriate example : 5x3=15
 - (a) Anonymous and inner classes
 - (b) Byte streams and character streams
 - (c) paint() and repaint() methods of an applet
 - (d) is infinite() and is NaN() methods
 - (e) ? operator and if statement
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- 14. (a) Write HTML code to create a form with just 5 one field where the value must be between 1 and 4. Take the user to a different screen depending on the value entered.
 - (b) Write an applet that counts the number of characters typed at the keyboard. When a period(.) is entered, it displays the count and then again starts counting characters.
 - (c) Write a Java program to sort n numbers in 5 ascending order using recursion.
 - Hint: First find the minimum of the numbers.