

Bachelor in Information Technology (BIT)

Term-End Examination

June, 2007

CSI-03: SOFTWARE CONSTRUCTS AND TOOLS

Time: 2 Hours Maximum Marks: 60

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

SECTION A

- 1. What key combination takes you from anywhere in an Excel spreadsheet to cell A1?
 - (a) Control, \leftarrow
 - (b) Control, PgUp
 - (c) Shift, Home
 - (d) Control, Home
- 2. What key combination lets you select two disjoint cells in a spreadsheet?
 - (a) Control + mouse click on both cells
 - (b) Shift + mouse click on both cells
 - (c) Alt + mouse click on both cells
 - (d) Not possible to do so
- 3. What is the default number of worksheets in an Excel workbook?
 - (a) 1
 - (b) 4
 - (c) 3
 - (d) 5
- 4. What is the keyboard shortcut to find and replace text in the spreadsheet?
 - (a) Control-H
 - (b) Alt-F
 - (c) Alt-R
 - (d) Control-R



U.	which of the following is not a Java keyword?	
	(a) else	
	(b) switch	
	(c) transient	
	(d) friend	
6.	Which keyboard combination lets you display formulae in the spreadsheet instead o cell values?	f
	(a) Control-F	
	(b) Control '	
	(c) Control-Enter	
	(d) Alt-F	
7.	Cells in a spreadsheet can be referred to by	
	(a) Cell column and then row	
	(b) Cell name	
	(c) Cell contents	
	(d) Cell attributes like font	
8.	Which of the following is true about variables declared in a public interface?	
	(a) They are implicitly private	
	(b) They are implicitly public and static	
	(c) They are implicitly public, static and final	
	(d) They are implicitly public and final	

Which of the following is a valid modifier for a top level class?



(a)

(b)

(c)

(d)

private

public

package

protected

9.

10.	The	value of a local int variable that has not been assigned explicitly is
	(a)	0
	(b)	undefined
	(c)	null
	(d)	random
11.	(a)	Write a Java program to input a string. The output should be the string where each output character is the exclusive OR of the corresponding input character with a single character key. The key should also be an input to the program by the user.
	(b)	You have an Excel worksheet with confidential payroll data and calculations. Discuss the various security and protection features available to you to keep your worksheet safe from unauthorised alteration.
	•	SECTION B
Ans	swer d	SECTION B any two questions from this section.
Ans.		
		any two questions from this section. stinguish between the following:
	Dia	any two questions from this section. stinguish between the following: Class and Object
	Dia (a)	any two questions from this section. stinguish between the following: Class and Object and operators
	Dis (a) (b)	any two questions from this section. stinguish between the following: Class and Object and operators throw and throws keywords



- 13. (a) Describe with examples, how you can perform various types of data validation in Excel during input.
 - (b) Explain briefly
 - (i) Transient variable
 - (ii) Implicit type conversion
 - (iii) Abstract class
- 14. (a) Write a Java program to input a natural number n and output its factorial, n! Use recursion.
 - (b) You need to create an Excel workbook with 5 worksheets called first, second, third, fourth and fifth respectively. The sheet tabs should be black, blue, red, green and orange respectively in colour. Each worksheet should have a different image in the background. In the sheet "third", the columns B and P should be hidden. Explain how you would do the above starting from a new blank workbook.