No. of Printed Pages: 4 CSI-03 **BACHELOR IN INFORMATION TECHNOLOGY Term-End Examination** 5 ~ June, 2010 001 **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** If you feel that none of the options is correct in questions 1 - 10, then write '0' as your answer: Which of these is not a valid option for vertical 1. 1 alignment in a cell: Top **Bottom** (a) (b) Justify (d) No alignment

(a) (c)

2.

(d)

To find the cells dependent on the selected cell,

View

Data

the first option to choose is:

Tools

Format

3.	Whi	ch of the foll	ne following cell contents can be added 1				
	to ar	n integer val	lue ?				
	(a)	Text		(b)	Date		
	(c)	Picture		(d)	Comments	. •	
4.	To e	nter a numl	er as	text:		1	
	(a)	Precede it	by ^				
	(b)	Precede it	by /				
	(c)	End it with	n ^				
	(d)	End it with	n /				
5.	Cells in which of the following can be referenced						
	in a	formula :					
	(a)	Same work	kshee	t			
	(b)	Different worksheets in same workbook					
	(c)	Different workbooks					
	(d)	Both (a) ar	nd (b)	ı			
6.	Which of the following will not help to prevent						
	cell c	contents from	m bei	ng rea	ıd:		
	(a)	Hiding the	colu	mn in	which the cell occurs		
	(b)	Making the font size very small					
	(c)	Making the font colour the same as the					
		background colour					
	(d)	None of the above					
7.	How many worksheets can a workbook have ?						
	(a)	3	(b)	no s	pecific limit		
	(c)	9	(d)	can l	oe configured by user		

8.	If $x$ is of type byte with value 10, then $x=x+5$ has value:						
	(a)	15					
	(b)	0					
	(c)	(c) will not compile					
	(d)	will give a run time error					
9.	A constructor is called when:						
	(a)	the object is first used in an expression					
	(b)	before the object is created					
	(c)	immediately after the object is created					
	(d)	The object goes out of scope					
10.	Wha	What is true for a final class?					
	(a)	It cannot be abstract	÷				
	(b)	It cannot be subclassed					
	(c)	Both (a) and (b)					
	(d)	Neither (a) nor (b)					
11.	(a)	Write a Java program to convert a decimal number into an array of 0's and 1's that correspond to its binary equivalent.	10				
	(b)	How can one set up data validation for a cell in Excel? Describe the different options that can be configured.	10				

## **SECTION - B**

Distinguish between the following: **12.** 5x3=15method overloading and overriding while and do - while loops (b) break and continue statements (c) (d) finalize () and finally block (e) >> and << operators 9 **13**. (a) What is conditional formatting in Excel? Describe the three options available here. How would you set up a cell to be in green and underlined if its value is greater than 100 and to be in red with strike through if its value is below 50? Explain briefly: 6 Casting (i) Abstraction (iii) Constructors In chess, the board consists of 64 squares **14.** (a) 8 laid out on an 8 x 8 grid, numbered 'a' through 'h' and 'l' through 8. A knight is a piece that can move to the opposite corner of a 3 x 2 rectangle. So a knight at position d5 can move to e7, c7, f6, b6, f4, b4, e3, or c3. Write a Java program to take in the position and print the squares that a knight can move on to an empty chessboard. Describe 4 options for protection of data in Excel, showing with an example each how they work.