

Advanced Diploma in Information Technology (ADIT) / Bachelor in Information Technology (BIT)

Term-End Examination

June, 2007

CST-301: INTERNET TECHNOLOGIES

Time: 2 Hours Maximum Marks: 50

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

1. Other classes can change private data of a class by

- (a) making the class a subclass of that class
- (b) manipulating that memory location
- (c) through methods that the class provides
- (d) not possible
- 2. The return value of the statement y++=6; is
 - (a) 7
 - (b) 6
 - (c) compiler dependent
 - (d) void
- 3. The modulus(%) operator can be used with
 - (a) int
 - (b) float
 - (c) double
 - (d) All of the above



- 4. A finalize() method runs when
 - (a) garbage collector is about to reclaim the object
 - (b) the object goes out of scope
 - (c) the object calls the finalize() method
 - (d) memory is running low on the machine
- 5. In nested ifs, an else is paired with
 - (a) first if of the series
 - (b) not defined
 - (c) depends on indentation
 - (d) with the most recent if
- 6. Which of the following is true about multiple inheritance?
 - (a) Interfaces can use it; classes cannot
 - (b) Interfaces cannot use it; classes can
 - (c) Both interfaces and classes can use it
 - (d) Neither interfaces nor classes can use it
- 7. Command line arguments are passed to an application as
 - (a) int
 - (b) string
 - (c) object
 - (d) None of the above
- 8. Which of the following types are **not** saved by the serialization facilities?
 - (a) Static
 - (b) Int
 - (c) Double
 - (d) String



- 9. The scope of a variable declared in a block is
 - (a) throughout the block after that point
 - (b) throughout the whole block
 - (c) throughout the whole method
 - (d) throughout the whole class
- **10.** Calling Clone()
 - (a) makes an exact copy
 - (b) makes a distinct copy
 - (c) does not make another object
 - (d) None of the above
- 11. Write HTML code to create a webpage with a table giving information about 3 products with name, cost and delivery period for each in different columns. Each row is a link to a different page with more information on that product. On each page, provide a link to return to the main page.

SECTION B

Answer any two questions from this section.

- 12. (a) Write a Java program to input 2 numbers less than 100. Find out whether they are relatively prime, that is, have no common factors except 1.
 - (b) Write HTML code to make 3 webpages. Each page consists of one paragraph. Each page has links to go to the next, previous, first or last page as appropriate.



- 13. Distinguish between the following with appropriate examples:
 - (a) & and && operators
 - (b) break and return statements
 - (c) catch and finally
 - (d) transient and volatile modifiers
 - (e) Byte stream and character stream classes
- 14. (a) Write HTML code to create a webpage with 3 paragraphs. The first has bold text in the largest available blue font. The second has an unnumbered list of 3 items. The third gives a link to e-mail feedback to a pre-defined address.
- (b) Write an applet that displays a message on the status window of the browser whenever an "E" is typed on the keyboard.
- (c) Write a program to read two numbers that are the real and imaginary parts of a complex number. Print out the modulus of the number.