

**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 1
 - (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 1
 - (a) 7
 - (b) 6
 - (c) compiler dependent
 - (d) void

3. The modulus(`%`) operator can be used with 1
 - (a) int
 - (b) float
 - (c) double
 - (d) All of the above

4. A `finalize()` method runs when 1
 - (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 1
- (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 ? 1
- (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 1
- (a) int
 - (b) string
 - (c) object
 - (d) None of the above
8. Which of the following types are *not* saved by the serialization facilities ? 1
- (a) Static
 - (b) Int
 - (c) Double
 - (d) String
9. The scope of a variable declared in a block is 1
- (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() 1
- (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. 10

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. 8
- (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. 7
13. Distinguish between the following with appropriate examples : 15
- (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. 5
- (b) Write an applet that displays a message on the status window of the browser whenever an "E" is typed on the keyboard. 5
- (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. 5

