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Sixth Semester B.E. Degree Examination, July/August 2004

Common to EC / TE / IT / PT / IP

Java Programming

Time: 3 hrs.]

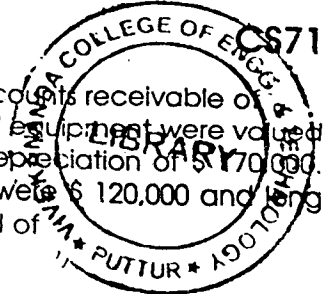
[Max.Marks : 100

Note: Answer any FIVE full questions.

1. (a) Explain the different features of Java. (8 Marks)
- (b) What are Web Browsers? Name some of the Web Browsers and explain Java's interaction with the web. (6 Marks)
- (c) Briefly explain the various concepts of object oriented programming. (6 Marks)
2. (a) Describe the structure of a typical Java program and describe the steps involved in implementing a stand alone program. (8 Marks)
- (b) Write a Java Program to illustrate the concept of command line arguments. Show the output. (8 Marks)
- (c) List the different data types in Java. (4 Marks)
3. (a) Write a Java program to illustrate switch statement. Show the output of the program. (10 Marks)
- (b) Explain the various looping constructs in Java with suitable example programs. (10 Marks)
4. (a) Write a Java program to illustrate the concept of overloaded methods. Show the output of the program. (10 Marks)
- (b) Explain the concept of single inheritance with a suitable Java program. (10 Marks)
5. (a) Write a Java Program to sort a list of numbers in descending order. (8 Marks)
- (b) Name the Java API packages and explain them. (8 Marks)
- (c) Explain the meaning of vectors. (4 Marks)
6. (a) Explain with state transition diagram the life cycle of a thread. (10 Marks)
- (b) What is an exception? Write a simple program to illustrate try, catch and finally in errors and exception handling. (10 Marks)
7. (a) What is an applet? Describe the different stages available in the life cycle of an applet. (10 Marks)
- (b) Write a Java program to create an applet to draw a rectangle and a polygon. (6 Marks)
- (c) How do applets differ from application programs? (4 Marks)
8. (a) What is a stream? Explain input and output streams with illustrations. (8 Marks)
- (b) Write a Java program to copy the contents of a file named 'input dat' into a file called 'out put dat'. (8 Marks)
- (c) What is an interface? Briefly explain. (4 Marks)

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- (b) Hytek corporation ended 2001 with cash of \$ 50,000, accounts receivable of \$ 100,000 and inventory of \$ 300,000. Property, plant and equipment were valued at their original cost of \$ 470,000, less accumulated depreciation of \$ 170,000. Current liabilities other than income taxes (see below) were \$ 120,000 and long term debt was \$ 250,000. Stock holders' equity consisted of
- i) \$ 90,000 capital stock investment and
 - ii) accumulated retained earnings which had totaled \$ 130,000 at the end of 2000.

Net sales for 2001 were \$ 900,000. Expenses included \$ 500,000. Cost of goods sold, \$ 50,000 allowance for depreciation, \$ 85,000 selling expenses and \$ 65,000 G & A expense. Interest income and expense were \$ 5000 and \$ 25000 respectively and income taxes for the year (unpaid at year's end) were \$ 80,000. Dividends of \$ 20,000 had been declared but not paid at year's end. Prepare first an income statement and then a balance sheet reflecting these figures. What is the asset turnover ratio?

(6+6+2 Marks)

Srinivas Institute of Technology
Library - Bangalore

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USN

NEW SCHEME

Seventh Semester B.E. Degree Examination, May/June 2006
CS / IS

Java and CGI Programming

Time: 3 hrs.]

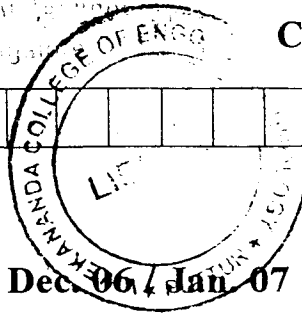
[Max. Marks:100

Note: 1. Answer any FIVE questions.
2. All questions carry equal marks.

1.
 - a. Explain Java features. (06 Marks)
 - b. Explain with example class variable and instance variable (06 Marks)
 - c. Explain the following with examples.
 - i) Method overloading
 - ii) Method overriding (08 Marks)
2.
 - a. What is a package? How do we add a class to package? (06 Marks)
 - b. How does string class differ from the string buffer class? (04 Marks)
 - c. Write a java program to read data from keyboard up to N names, sort in alphabetical order using Bubble sort. (10 Marks)
3.
 - a. What is an Exception? List some of the most common types of exceptions that might occur in java. Give examples. (06 Marks)
 - b. Describe the complete life cycle of a Thread with program to illustrate yield(), stop(), and sleep() methods. (08 Marks)
 - c. Define vector class. Explain vector methods. (06 Marks)
4.
 - a. What are the differences between Applets and Application programs? (04 Marks)
 - b. Write a java program with interactive input to an applet to find factorial of a given number. (08 Marks)
 - c. Explain java layout managers with programs. (08 Marks)
5.
 - a. What is CGI? Explain the internal working of CGI with a neat diagram. (06 Marks)
 - b. Why PERL is used for CGI programming? List its advantages. (06 Marks)
 - c. Write a program to display various server information like – server name, server software, server protocol, CGI Revision. (08 Marks)
6.
 - a. Explain the methods used for sending and receiving data to and from forms. (06 Marks)
 - b. What is a dynamic home page? How do you create it? Give example. (08 Marks)
 - c. Define SSI. Show the working of following directives.
 - i) #command
 - ii) #echo
 - iii) #include
 - iv) #exec (06 Marks)
7.
 - a. Explain Data types and Arrays in PHP. (06 Marks)
 - b. What are the Built-in PHP Functions? Explain. (06 Marks)
 - c. What are the CGI security considerations? Explain. (08 Marks)
8.
 - a. Explain how to access database using PERL. (06 Marks)
 - b. Explain various types of Hyperlinks. (06 Marks)
 - c. What is a servlet? Compare servlets with CGI. (08 Marks)

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NEW SCHEME

Seventh Semester B.E. Degree Examination, Dec. 06 / Jan. 07
CS / IS

Java and CGI Programming

Time: 3 hrs.]

[Max. Marks:100

Note : Answer any FIVE full questions.

- 1 a. Explain the process of building and running java application program. (05 Marks)
b. Compare and contrast overloading and overriding methods. (05 Marks)
c. Describe the various forms of implementing interfaces. Develop a program to implement multiple inheritance. (10 Marks)
- 2 a. Describe the various levels of access protections available for packages and their implications. (08 Marks)
b. Write short notes on
i) final class ii) finalize() iii) dynamic binding iv) java virtual machine. (12 Marks)
- 3 a. Define exception. Demonstrate the working of nested try block with suitable program. (08 Marks)
b. Develop a program to create multithreads with different priorities. (08 Marks)
c. What is synchronization? When do we use it? (04 Marks)
- 4 a. What are the different methods supported by input stream and output stream classes. (05 Marks)
b. What are the different layouts supported by java. Write a program to demonstrate flow layout. (08 Marks)
c. Develop an applet that receives three numeric values as input from the user and then displays the largest of the three in the screen. (07 Marks)
- 5 a. Explain how static and dynamic contents are served in web. (07 Marks)
b. What is the role of Apache web server? Explain the steps involved in configuring Apache web server. (08 Marks)
c. What are log files? How to access them? (05 Marks)
- 6 a. What are the various mysql datatypes available? (05 Marks)
b. Write a program to display the current contents of a table in the database. (07 Marks)
c. Write a program to change the password of user and grant him the required permission. (08 Marks)
- 7 a. Explain CGI security considerations. (05 Marks)
b. What is SSI? How does it work? Explain. (07 Marks)
c. Describe the different form widget methods. (08 Marks)
- 8 a. What is cgi.pm? How is it different from a normal cgi construct? Explain. (05 Marks)
b. Write a program to retrieve data from a database in mysql using php. (08 Marks)
c. Write the difference between pre-php version 4.1.0 and post php version 4.1.0. (07 Marks)

NEW SCHEME

Seventh Semester B.E. Degree Examination, May 2007
CS / IS

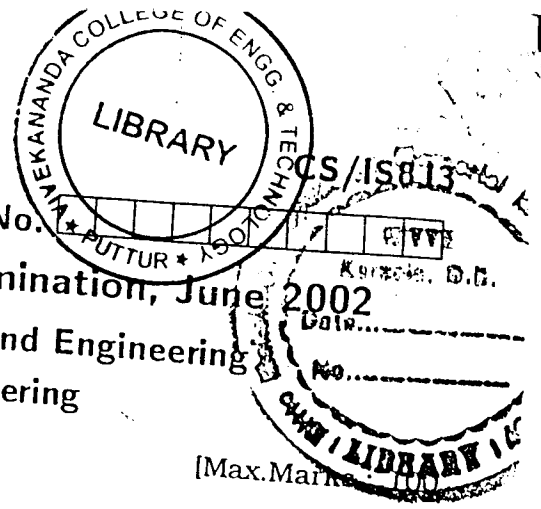
Java and CGI Programming

[Max. Marks:100

Time: 3 hrs.]

Note : Answer any FIVE full questions.

- 1 a. Describe fundamental mechanisms of Object Oriented Programming. (10 Marks)
b. List the characteristic features of Java language. (04 Marks)
c. What are the different (data) types available in Java? (06 Marks)
- 2 a. How are arrays defined and used in Java? (06 Marks)
b. What are short-circuited logical operators? Give examples. (04 Marks)
c. Write a Java program to find the distance between two points whose coordinates are given. The coordinates can be 2-dimensional or 3-dimensional. (For computing the distance between a 2D and a 3D point, the 3D x and y components must be divided by z). Demonstrate method overriding in this program. (10 Marks)
- 3 a. Describe the string constructors in Java. (10 Marks)
b. How is access protection provided for variables and methods in java? (06 Marks)
c. Describe the methods that can be used to search a sub string in a given string. (04 Marks)
- 4 a. Give the basic form of an exception-handling block. What is the importance of the clause finally? (06 Marks)
b. What is meant by thread priority? How is it assigned? (06 Marks)
c. Write a Java program to implement a stack and demonstrate push, pop and display operations. (08 Marks)
- 5 a. Explain the following graphic methods: draw Line, draw ARC, draw Polygon. (06 Marks)
b. Write a note on AWT. (04 Marks)
c. Using a diagram explain how a web page is served by a web server. Give commands for the following: i) Starting the apache server, ii) Reloading the configuration file and iii) Make apache start at the boot. (10 Marks)
- 6 a. List the steps for securing the apache server. (05 Marks)
b. Give the sequence of steps for storing the Roll, Name and Total Marks of students in a class using MySQL. (10 Marks)
c. Give sequence of commands for changing the MySQL root password and creating a user. (05 Marks)
- 7 a. What is CGI.pm? What is the use of passing the string ':standard' into the use pragma? (05 Marks)
b. Give some important security considerations with CGI programs and explain any two of them. (10 Marks)
c. What are Server Side Includes? What can be done using them? (05 Marks)
- 8 a. What is PHP? How are variables formed in PHP? Which are the primitive data types in PHP? (05 Marks)
b. What is the security threat to a website when PHP is used? How can it be avoided? (05 Marks)
c. Write a PHP program that initializes three variables with integer values and determine the largest of these using a function and prints the three numbers and the largest. (05 Marks)
d. Explain the following functions in PHP: array_push(), array_pop(), array_unshift(), array_shift() and rsort(). (05 Marks)



Reg. No.

Eighth Semester B.E. Degree Examination, June 2002
Computer/Information Science and Engineering
Management in Engineering

Time: 3 hrs.]

[Max. Marks: 100]

Note: Answer any FIVE full questions.

1. (a) What are the aims of Organization? Explain. (6 Marks)
 (b) What is Mission statement? Explain. (4 Marks)
 (c) What are the strategies for survival? Explain. (10 Marks)
2. (a) Explain the methods of Company Organization. (6 Marks)
 (b) What are the factors that affect company organization? Explain. (6 Marks)
 (c) What are the benefits of Appraisal Scheme for an employee? (8 Marks)
3. (a) Explain the methods of training and developing personnel. (8 Marks)
 (b) What are the aims of job design? (6 Marks)
 (c) What are the advantages for company and employees of using graded payment scheme? (6 Marks)
4. (a) What is Holistic team? Explain. (6 Marks)
 (b) What are the planning techniques for innovative process? (6 Marks)
 (c) Explain the Decision Making techniques. (8 Marks)
5. (a) Why Personal Management is important? What are the advantages? (6 Marks)
 (b) Explain the three areas of boss-subordinate relationship. (8 Marks)
 (c) What are the attributes of Well-written objectives? (6 Marks)
6. (a) Explain the following: (12 Marks)
 (i) Career planning (ii) Curriculum Vitae (iii) General well-being
 b) Explain the different communication methods and aids. (8 Marks)
7. (a) What are the factors that affect the written communication? (8 Marks)
 (b) What are the different areas of preparation of presentation? (8 Marks)
 (c) Explain the role of Interviewer. (6 Marks)
8. Write short note on the following. (4 x 5 Marks)
 (i) Strategic Marketing.
 (ii) The Approval Interview.
 (iii) Time Management.
 (iv) Oral Communication.

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