

END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY 2008

Paper Code:BCA-206
Paper Id:20206

Subject: Java Programming & Website Design
(Batch 2005-2006)

Time : 3 Hours

Maximum Marks :75

Note: Q1. is compulsory. Attempt one question from each section.

- Q1. (a) What are different kinds of variables available in java? Explain their uses also. (4)
- (b) What are reference type variables? (2)
- (c) What is 'this' keyword? How is it different from 'Super' keyword. (4)
- (d) How does JDBC differs from ODBC. (3)
- (e) Explain different types of JDBC SQL statements and their usage. (5)
- (f) What is the difference between (4)
- (i) >> and >>>
- (ii) 'equals' & '=' for string comparison
- (g) What is <frame ref> tag & where do we use it? (3)

SECTION-A

- Q2. (a) What is vector class? Where do we use this? Explain any four methods of this class. (5)
- (b) What is the difference between "throw" & "throws". (2)
- (c) Discuss the difference between "string" and "String Buffer" class as defined in Java. (2½)
- (d) Discuss the is Alive(), join() & notify() methods in the context of multithreading in java. (3)

OR

- Q3. (i) Write a program in Java for user defined exception named as "Illegal Age Exception". If the age entered by the user is less than 18 or greater than 60, then the program should raise this user-defined exception, which is explicitly handled by the code. (7)
- (ii) What is difference between process based and thread based multitasking. Describe thread priorities & synchronization. Mention the associated methods and describe them briefly. (5 ½)

SECTION-B

- Q4. (i) Write an applet for the ball (or circle) which is moving to and fro from one end of the applet to the other end of the applet. (7 ½)
- (ii) Explain all the methods of applet life cycle in brief. (5)
- Q5. (i) Explain the following in brief. (4)
- (a) Border layout
- (b) Card layout

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- (ii) Write an applet, which should have three textboxes with labels "first No", "Second No" & "results" respectively. It should also have two buttons displaying "Divide" & "Clear". On the click of "Divide" button it should divide the first No. by second No. and display the result in the third textbox. On the click of "Clear" button, all the text boxes should be cleared. (8 ½)

SECTION-C

- Q6. (a) What are different types of JDBC drivers available in Java. Explain their advantages & disadvantages. (6)
 (b) What is Inet address in java? Write a java program to implement datagram server and client. (6 ½)

OR

- Q7. (a) Assume that there is a table named as "Student" in MS-Access with following fields: Student_id, name, course, email. Write a java program to insert and then display the records of this table using JDBC. (7)
 (ii) What is TCP/IP socket? Explain the use of TCP/IP socket through an example of a program written in Java. (5 ½)

SECTION-D

- Q8. (i) Why do we use <Meta> tag in HTML. Explain any two attributes of meta tag. (3)
 (ii) What are the differences between static and dynamic web pages. Give example. (3)
 (iii) Write HTML code for the following. (6 ½)

GGSIPU		
Program	Year	No. of students
BCA	2005	60
	2006	100
BBA	2005	50
	2006	80

OR

- Q9. (i) Write HTML code for student registration form for GGSIP University, which should have atleast user name, password, address as textfields, country as combo-box, gender as radio button, hobbies and submit Button. Make your necessary assumptions. (7 ½)
 (ii) Explain the following in brief (5)
 (a)

 (b) Cell padding
 (c)
 (d) Cell spacing
 (e) <Head>

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FOURTH SEMESTER [BCA] MAY - JUNE 2007

(7.5) Code:BCA-206
(Batch:2005)

Subject: Java Programming & Website Design

: 3 Hours

Maximum Marks :75

(12.5) Q1. is compulsory and attempt one question from each unit.

- (10) (a) Java is a strongly typed language comment.
- (2.5) (b) Differentiate call-by-value and call-by-reference.
- (c) Give the usage of super keyword.
- (d) Write a Java program to
- (i) Test equality between two strings
- (ii) Convert each character of a string to its next character.
- (e) Give the life cycle of an applet
- (f) What are proxy servers
- (g) Explain DNS
- (h) List the drives in JDBC
- (i) Explain Meta Tag
- (j) Differentiate between frame and frameset tag.

(2.5 x 10 =25)

Unit-I

1. (a) Define constructors? How are they different from member function?
Explain with an example. (4)
- (b) Explain Exception handling. (4)
- (c) What are interfaces? Explain with an example. (4.5)
2. (a) List the various datatype in java. (4)
- (b) Define Packages. Show the access of variables inside a package. (4)
- (c) Define a thread? List the various methods to create a thread. Explain any one. (4.5)

Unit-II

3. (a) Create an applet to display a moving banner. (10)
- (b) Explain the string buffer class. (2.5)
4. (a) Explain the various layout managers in detail with an example (any two). (10)
- (b) List the various AWT controls. (2.5)

Unit-III

5. (a) Discuss delegation event model. (10)
- (b) Write short notes on Datagram socket. (2.5)
6. (a) Create an applet to accept to name, roll number and marks of 5 students
Display the name and roll number of the student with maximum marks (10)
- (b) Explain the URL format (2.5)

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Unit-IV

- Q8. (a) Design a HTML page to divide it into 2 frames. The left frame contain links when clicked on these links this pages should open right frame.
- Q9. Design the following HTML page.

Fig -

The diagram shows a hand-drawn registration form window. The title bar reads "Registration form" with a close button (X) on the right. The main content area is titled "REGISTRATION FORM" and contains the following fields:

- Name: A single-line text input field.
- Roll No: A single-line text input field.
- Gender: Radio buttons for "Male" and "Female".
- Date of Birth: Three separate boxes for day, month, and year.
- Address: A multi-line text input field.

At the bottom of the form are two buttons: "OK" and "CANCEL".
