(Please write your Exam Roll No.)

Exam Roll No. 05714202011

#### END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY-JUNE-2013 Subject: Java Programming (New) Paper Code: BCA206 Maximum Marks:75 Time: 3 Hours Note: Attempt any five questions including Q.no.1 which is compulsory. Select one question from each unit. (2.5×10=25) Explain any ten of the following briefly:-QI a) What is the role of JRE? What is the use of finalize() method? e) What is constructor overloading? What is the role of priority in multithreading programming? What L'O classes can be used to take input from keyboard in java programs? What is user defined exception? How is it created? gy What is an inner class? (h) Write any five methods of Scrollbar class. What is the use of AWT package? gaad.com Differentiate TCP and UDP. (k) What is the use of InetAddress class? What is the DriverManager class in JDBC? (3) a) Explain interface with example. Write down its advantages. Q2 b) What is array? Write syntax to create irregular two dimensional array? Give suitable example. (4)c) Write a java application that takes an integer number as input from command line and computes the sum (5.5)of digits and number of digits. (3) a) What are the usages of "this" and "super" keywords? b) Explain Abstract class in java? What is the advantage of abstract class? Give suitable example. (6.5)(3)°c) Explain instance variable hiding with suitable example. (5)a) Explain any 5 string methods with syntax. 04 b) What is Exception? What is the difference between checked and unchecked exception? Write a program (7.5)to demonstrate exception handling in java with example OR a) Explain Thread life cycle. Write a program that have two threads where one thread print table of 5 and (6.5)Q5 other thread print a string 10 times. b) What a note of byte stream I/O classes and character stream I/O classes in java. (6)UNIT - III (7.5)"a) Write an applet to create moving banner. b) What is Swing? Write down the features of swing. Compare applet and swing. (9) a) Explain applet life cycle. Write an applet to change background color of applet using 3 scrollbars (7.5)Q7 representing colors red, green and blue respectively. b) Explain Delegation Event Model in detail. Discuss any five events and listeners to handle those events. (5)(6) a) Write short notes on following:--08 1) InetAddress class and its factory methods 2) Servlet Life Cycle b) Write a java application to connect to database table emp (id, name, design) and display all records of table. (6.5) (5) a) Write a Servlet to display the current date and time. (7.5)b) What is JDBC? Explain all JDBC drivers and their features. What are the advantages of JDBC?

FOURTH SEMESTER [BCA] MAY-JUNE 2014

(2011		Subject: Java Programming (2011 Onwards)	
		Maximum Marks: 75	
No	ote: Attempt any five question, inclu Select one question		
Q1	(a) Which event is generated when a scrol		
	(b) How does Java ByteCode differ from of	ther machine level codes?	
	(c) What is an adapter class?		
	(d) Which are the access specifiers availab	ole in Java?	
	(e) What is a reference variable? (f) Can an applet class have a constructor	2 Justify your answer	
	(g) What are the roles of Java compiler an		
	(h) State the purpose of a static block.	a merpreter.	
	(i) Why Java is called TypeSafe language a	as compared to C++?	
	State the use of 'this' keyword.	(10x2.5=25)	
	Unit-I	LICENTA COM	
22	(a) What are abstract classes? How does	they differ from concrete classes? Can an	
		there be an abstract constructor. Explain	
	your answer with suitable example.	(6)	
		provide a default constructor? Does Java	
	provide a default copy constructor? Ex	xplain your answer with suitable example.(6	
)3	(a) How is method overloading different	from method overriding? Give suitable	
	example.	(5.5)	
	(b) What is the need of an interface in Jav		
	(e) Discuss the usages of 'final' keyword.	(3)	
	Unit-II		
)4	(a) Compare String and StringBuffer class		
	(b) Mention various states of a thread. Give		
	(c) Discuss the process of synchronization OR		
)5	(a) Write a Java program to copy contents		
		nchecked exceptions. Write a program to	
	create user-defined exception and use Unit-II		
06		a program to illustrate the keyboard <b>OR</b>	
	mouse event handling.	(8)	
	(b) Differentiate between Swings and AWT		
	OR		
)7	(a) Explain the life cycle of an applet.	(5)	
	(b) Write a program to display a student's	details such as name, roll number, marks	
	Unit-IV		
89		OBC architecture. What are basic steps to	
	create a JDBC application?	(7)	
	<ul><li>(b) What are the different types of JDBC s</li><li>(c) Write a short note on Client-Server app</li></ul>		
	(c) write a short note on Chent-Server app	olications in Java. (2.5)	
9	Write notes on the following:-		
	(a) Java Servlets	(3)	
	(b) InetAddress class	(3)	
	(c) Byte and Character stream classes	(3)	
	(d) Layout Manager.	(3.5)	

FOURTH SEMESTER [BCA] MAY-JUNE-2015 Subject: Java Programming Paper Code: BCA206 (Batch: 2011 onwards) Time: 3 Hours Maximum Marks :75 Note: Attempt any five questions including Q.no.1 which is compulsory. Differentiate between the following:- (provide an example to each Q1 (5x5=25)subsection):-(a) Super class and sub class (b) Byte and character streams (c) Check box and radio button (d) Adapter class and inner class (e) Java classes and Java Interfaces Q2(a) What is a thread? Describe the complete life cycle of thread. Provide an example to create and execute the thread. (b) State any six features of Java in detail. (6)Q3 Explain the following terms with respect to exception handling. Provide an example to demonstrate the following terms:-(12.5)(a) Try (b) Catch (c) Throw (d) Finally Write a program which demonstrate how exceptions are implemented. (a) What is the difference between an argument and a parameter? 04 Discuss with an example. (6.5)(b) What is polymorphism? Write a JAVA program that uses polymorphism. (6)What is Inheritance? With diagrammatic illustration and JAVA Q5 Program(s), illustrate types of inheritance. Give self explanatory (12.5)comments in your program. Define I/O stream. Write a java program to illustrate the use of I/O Q6 (12.5)stream. (a) How do applets differ from application programs? Explain with Q7 (4)example? (4)(b) Distinguish between the following:-(i) Input stream and Reader classes (ii) Output stream and Write classes (c) Write a program to accept number from user and convert into binary by using wrapper class methods. (4.5)(6.25x2=12.5)Write short notes on any two of the following:-Q8 (a) Datagrams and TCP/IP based client and server socket

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(b) Swings and comparison with AWT controls (c) JDBC Architecture and JDBC Drivers

Pap	FOURTH SEMESTER [BCA] MAY-JUNE 2016  Der Code: BCA-206	
Tim	ne : 3 Hours Subject: Jo	iva Programming
	Note: Attempt any five question including Q.No.1 which is co	cimum Marks :75
60	Answer 11 C. II.	ompulsory.
9	Answer the following questions:  (a) How can we pass parameters to an analysis	(2.5x10=25)
	(a) What is the fole of lavoit manager in Atim	?
	applet class flave a constructor? fuetife.	enswer.
	(g) What do you understand by doorses the	tatic method?
	(h) State the uses of 'super' keyword with an average	
	What do you understand by garbage collection in ja	, m 3
2	(a) What is at the second in ja	var
_	(a) What is the difference between equality of objects and equality that refer to them?	ty of references
	(b) Write an application that	(6)
	(b) Write an application that computes the value of following e using the formula: exp = 1+x/11+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+x2/21+	xpression 'exp'
	using the formula: $\exp = 1 + x/1! + x2/2! + x3/3! + \dots$	(6.5)
3	(a) What is the role of priorities in multithreading. What are i	4- 1' '
	Explain with the help of an example how to set and get price threads in Java.	is limitations?
	(b) What do	rity values for
	(b) What do you understand by inter-thread communication in jay	(5) (5)
	(c) What is the role of stack in exception handling?	(2.5)
		(2.0)
	(a) Write a java program to accept two file names as command I Copy only those lines from the first file to good deal in the lines.	
	Copy only those lines from the first file to second which cont 'computer'.	ine argument.
	'computer'.	
	(b) Discuss in detail 'throw' and 'throws' keywords.	(8)
	,	(4.5)
1	(a) Explain in brief love	
,	(a) Explain in brief Java's event handling mechanism with the example.	e help of an
	(b) What is a container? Explain have	(5)
	(b) What is a container? Explain how components are added to What is a default layout of an applet? How can you change it? (c) List the methods under Window Listener Interfered	a container.
. (	(c) List the methods under Window Listener Interface.	(4.5)
	Ensemel interface.	(3)
1	(a) Swing components are lightweight components. Comment.	
Ĺ	(b) What is a String Buffer class and how does it differ from String (c) Why do we need both run() and start() mathed.	(4.5)
1	(g) Why do we need both run() and start() methods in multithread achieve it with only run() method? Explain	ing? Can
	achieve it with only run() method? Explain.	(4)
		(**)
1	(a) Explain in detail various input and output streams and their co- classes in Java.	rresponding
(	(b) Explain the life cycle of an applet.	(6.5)
7	and the cycle of an applet.	(6)
1	Write notes on the following:	20 12
	(a) Interfaces (b) Adams (c)	3.5, 3, 3, 3)
	(c) Life cycle of Java Servlet (d) Checked Exceptions	
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Exam	Roll	No.	

FOURTH SEMESTER [BCA] MAY 2017
Subject: Java programming

Dane	r Code: BCA-206	Subject: Java programming
	A STATE OF THE PARTY OF THE PAR	Maximum Marks: 75
Note	: 3 Hours e: Attempt any five questions including	Q no.1 which is compulsory.
Q1	Answer the following:-  (a) What is type casting? Illustrate with Automatic type promotion.  (b) What is delegation event model?  (c) Discuss the uses of 'throw' and 'throw (d) Explain the different uses of 'super' kee (e) Explain the lifecycle of an applet.	(5x5=25) The example what is meant by s' keywords.
Q2	<ul><li>(a) Explain why the main function is dec (String args[])"?</li><li>(b) List and explain any 8 Java buzzword</li><li>(c) List and explain the OOP principles.</li></ul>	s. (4) (4.5)
Q3	<ul><li>(a) Explain the concept of abstract classe</li><li>(a) What is a Package? Discuss with sui in creating and using packages.</li></ul>	(6.5)
Q4	withdrawAmount() functions. If user than his balance, then throw a User I	ringsAccount with members as rovide depositAmount() & tries to withdraw more money Defined Exception. (6.5)
Q5	<ul><li>(a) Explain the different ways of creating</li><li>(b) How shared object can be protected f</li></ul>	threads in java with syntax. (6) rom multiple access of threads? (6.5)
Q6	<ul><li>(a) Bring out the differences between example.</li><li>(b) Discus various layout managers available.</li></ul>	(0)
Q7	<ul><li>(a) Write a program to illustra BufferedOutputStream.</li><li>(b) Compare byte stream class and chara</li></ul>	(6)
Q8	Write short notes on the following:- (a) JDBC architecture (b) Adapter classes (c) Applets and comparison with applica (d) Check box and choice list	(3) (3) (3) (3.5)

Paper Code: BCA-206

Subject: Java Programming

### END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY 2018.

Time	ne: 3 Hours	Maximum Marks: 75		
Note: Attempt any five questions including Q.no.1 which is compulsory.				
:				
Q1 ·	(a) Explain in detail the features of Java.	(5x5=25)		
	(b) How a multidimensional array is represented program to create a 2 * 2 array.	in Java? Write the		
	<ul><li>(c) Differentiate between Socket and Port.</li><li>(d) How multithreading is achieved in Java pr</li></ul>	ograms. Discuss its		
	advantages and disadvantages. (c) Differentiate between Swings and Applets.			
	(f) How the constructor is overloaded in Java?			
Q2 <sub>,</sub>	<ul><li>(a) What is a private constructor? How we can creclass having private constructor from other class</li><li>(b) Explain the logical operator (&amp; &amp; and    ) with explain the logical operator (and a private constructor)</li></ul>	(6)		
Q3	(a) What is a constructor? Write the program to p base class constructor form the sub class.			
٠	(b) Explain different access modifiers available in Ja	va. (6.5)		
Q4	<ul><li>(a) Differentiate between checked and unchecked examples of each type.</li><li>(b) Explain the life cycle of Thread. Describe an thread class.</li></ul>	(6)		
Q5 :	(a) Write the program to count the number of words (b) Why String class objects are considered as important between length property and length () method w	mutable. Differentiate		
Q6	(a) What is layout manager? Explain any three layout Which method is used to set the layout manager			
	(b) Write a program to print the table of any number			
Q7	(a) Explain the two predefined stream variables in a (b) Differentiate between ODBC and JDBC.	nd out. (6)		
Q8	(a) Explain the InetAddress class. Write the pro- address of any website using the methods of Ine			
	(b) Explain client server communication using soc of Server Socket and Socket Class in Java.			
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FOURTH SEMESTER [BCA] APRIL-MAY 2019

Subject: Java Programming Paper Code: BCA-206 Maximum Marks:75

Note: Attempt any five questions including Q.no.1 which is compulsory. Time: 3 Hours

			(5x5=25)
Q1	Ans	wer any five the following:-	
	(a)	Discuss all the three usages of final keyword?	
	(b)	How can we pass parameters to an applet?	
	(c)	What is the difference between int and Integer?	
	(d)	Differentiate between adapter and inner classes.	
	(e)	What is DriverManager class in JDBC?	
	(f)		thread?
	(g)	What is the use of this and super keyword? What do you mean by Daemon thread? How can you set priority of a	LIII CHINA
			. of the
Q2	(a)	How is method overloading different from method overriding? Expla	in with the
6-	(00)		
	(b)	a D - Terra provide default constructors	Does Java
	(10)	what is a constructor? Does Java provide default constructor? Explain your answer with suitable provide a default copy constructor? Explain your answer with suitable	e example. (0.5)
Q3	(a)	What is inheritance? Explain different types of inheritance in Java w	(6.5)
		diagram and small segment of codes.	1
	(b)	What are cookies? Are they good or bad? Justify.	(6)
- 1	1.3	Explain the life cycle of a thread. Discuss the process of thread sync	chronization
Q4	(a)	Explain the life cycle of a threat. Discuss of	(6)
		with the help of appropriate code.	(6.5)
	(b)	Explain any 5 String class methods in detail.	
OF	101	Differentiate between checked and unchecked exceptions. Write a	program to
Q5	(a)	demonstrate the concept of user defined exceptions.	(7.5)
		Write a program to copy contents of one file to another.	(5)
	(p)		
06	(a)	What is delegation event model? Write program to explain keyb	oard event
QO	(a)	handling.	(7.5)
		Differentiate between swing and AWT.	(5)
	(b)		244
Q7	(a)	Write a program to change background color of applet using thre	e scrollbars
QI	(a)	representing red, green and blue?	(110)
	(b)	Write short notes on InetAddress class and its factory methods.	(5)
	(5)		(7.5)
Q8	(a)	What is JDBC? Explain all JDBC drivers in detail.	(5)
	(b)	Write a servlet to display current date and time.	1-1

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