Level: Bachelor Semester: Fall Year : 2021 Programme: BE Full Marks: 100 Course: Programming in Java Pass Marks: 45 Time : 3hrs. Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. What do you mean by architectural-neutral? What are wrapper classes? Explain. What is Singleton class? What is the difference between abstract class and interface? Define Inheritance and Composition. With the help of a suitable al program illustrate the difference between them. What is method overloading? Can you override a private or static 8 method in Java? Explain with an example. Explain about File Reader and Buffered Writer class. How do you a) 8 create your own exception class? Explain with suitable programming example. b) Create an applet that plays a sample audio file. Also create a GUI that allows users to play, stop or replay the audio. Add a functionality to automatically stop the audio if the applet is inactive. What do you mean by delegation event model? Explain various event a) listener interfaces with an example. What advantage do java's layout managers provide over traditional windowing systems? How do you create menu in Swing? Explain with an example. 5. As per a poll conducted in a class of 48 students, 25 students are a) supportive of virtual classroom while 15 are against it and remaining 8 students chose to stay neutral. Create a pie chart to illustrate this poll result. Write a TCP socket program to accept a line of string input from the 7 client and send it to server. The server checks if the string is Palindrome or not and send result back to client. Client machine

displays the string received from server.

- 6. a) What are the differences between JDBC and ODBC? What are the steps to connect to the database in java?
 - b) A database "testdb" contains a table "Student" with fields id, name and address. Write a program that asks user to enter the information and save them in the database. The program should prompt the user to press y/n to either continue or exit the program after every successful entry.
- 7. Write short notes on: (Any two)
 - a) Abstract class
 - b) An Applet Skeleton
 - c) Inner Class

2×5

Level: Bachelor

Semester.Fall

Year : 2020

Programme:BE

Course:Programming in Java

Full Marks: 100 Pass Marks: 45

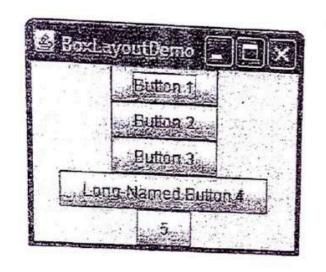
Time : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

- Explain the Intermediate Working principal of java programming language that makes it runnable on any platform.
 - b) Why multiple inheritance is not supported in Java. Provide a simple code example to support yours answer.
- a) Why Reflection is regarded as a powerful aspect in java? WAP to 8
 demonstrate your answer.
 - b) Define exception and explain why it is necessary to handle exceptions? WAP to write bytes of data to a file called "exams.txt" and reading it until end of file is obtained, using proper exception handling.
- 3. a) Define Applet and explain its lifecycle. Create a simple Applet and demonstrate how we can run a Java Applet.
 - b) Create a Frame with two Text Fields, one of which should show whether the mouse pointer is inside or outside the Frame and the other text field should display the X and Y co-ordinates of the pointer when the use moves the mouse pointer inside the Frame area.
- a) State the different types of layout manager in swing. WAP to generate 7
 the following output in java using Box Layout.



- b) As per a recent survey, among all the Javascript frameworks 40% prefers React while Angular comes second with 30% developers preferring it and 20% of developers prefer Vue while remaining 10% use other frameworks. Create a pie to show case the survey information.
- a) What are the different socket types in java? Draw a diagram with
 appropriate methods to describe client server interaction in java.
 - b) Explain the use of URL and URL connection class with a suitable example.
- 6. a) What is JDBC? Draw JDBC architecture and explain JDBC drivers with their advantages and disadvantages.
 - b) WAP to insert data of any student with schemas (name. age. Semetar.
 University. Status.) By default. Sqlconnector is to be used (if comfortable with any database connector. free to describe and use

2×5

- 7.. Write short notes on: (Any two)
 - a) Wrapper class.
 - b) Life cycle of an applet.
 - c) TCP and UDP socket.

L	evel: Bachelor	Semester: Fall	Year	: 2019	
	rogramme: BE			rks: 100	
C	ourse: Programming i	n Java	Pass Ma	rks: 45	
			Time	: 3hrs.	
	Candidates are require us practicable.	ed to give their answers in	their own wo	rds as far	
7	The figures in the marg	gin indicate full marks.	. *		
1	Attempt all the question	ons.			
a)	What are the most platform neutral lang	powerful features of java? uage by a diagram.	Describe he	ow it is a	
b)	Explain multiple inhinheritance in java?	eritance. How is it possib	le to achieve	e multiple	
a)	What is interface? W	AP to show interface imple	ementation in	java.	8
b)		to write "Test on File H		0711	7
a)	What is an Applet? E	explain life cycle of applet.	100 - 1		8
b)	What are the difference Explain FlowLayout.	ences between GridLayout	and GridBa	gLayout?	7
a)	button is clicked the	hat contains a button, and two value of first text field sl or "even number" in the se	hould be che	cked and	8
b)		plication to display "Pokha : Times New Roman, type:led the applet.			7
a)		ustrating how client server with detailed methods in ea		occurs in	7
b)	Create a TCP client/s the server and the se number sent by client	server program in which clie erver responds to client by t.	ent sends an i sending squa	nteger to re of the	8
a)	Briefly describe the J	DBC-ODBC types of bridge	and driver in	java.	7

1.

2.

3.

4.

5.

b) Write a program to display only those records whose salary is more than 25000 from a table that contains id, name, post and salary of some employees.

7. Write short notes on: (Any two)

2×5

- a) Reflection API
- b) Events and event classes
- c) Types of JDBC drivers

Level: Bachelor Semester: Spring Year : 2019

Programme: BE Pass Marks: 45

Course: Programming in Java Time : 3hrs.

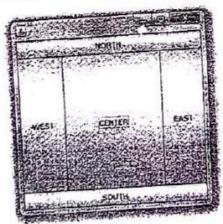
Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

- a) List the advantages of java programming language. Why is it also known as platform independent language?
 - b) In what condition is the use of "this" operator mandatory? Explain with suitable program.

- a) Why Reflection is regarded as a powerful aspect in java? WAP to demonstrate your answer.
 - b) What do you mean by exception? How exception handling is different from error handing? Explain.
 - a) State the life cycle of an applet. Can it be changed into application? If yes, justify your answer.
 - b) What is layout manager? State the different types of layout manager in swing. WAP to generate the following output in java using Boxlayout.



- a) Create a swing GUI which contains a text field (to input radius of circle), a label and a button. When the button is clicked area of circle should be calculated and displayed in the label.
 - b) WAP to display the flag of nepal, drawing a graph along with the reasonable coordinates.

a)	Explain network programming Company TCP	
b)	- 1 CI CHEILING THE	7
a)	Draw JDBC architecture and describe different types of JDBC Drivers.	7
b)	Discuss the tags used in applet	
Wr	ite short notes on: (Any two)	8
a)	Interface and Inner Classes	2×5
b)	Different event handling mechanisms	
c)	Executing SQL queries from Java	3
	b)a)b)Wra)b)	 b) Create a TCP client/server program in which client and server communicate by sending a message to each other. a) Draw JDBC architecture and describe different types of JDBC Drivers. b) Discuss the tags used in applet. Write short notes on: (Any two) a) Interface and Inner Classes b) Different event handling mechanisms

:2018 Year Semester: Fall Full Marks: 100 Level: Bachelor Pass Marks: 45 Programme: BE Course: Programming in Java : 3hrs. Time Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. How is interface different from abstract class? Explain the use of 8 a) 1. interface to achieve multiple inheritances. What are the uses of abstract keyword? Explain with a suitable 7 b) Create a class Employee with id, name, post and salary. Create a parameterized constructor to initialize the instance variables. Override 2. a) the to String() method to display the employee details. b) What is exception handling? Explain. Write a program to handle 8 Arithmetic Exception. a) What is a dialog box? Explain its types. Write a program to create your 7 3. own dialog box. b) What are the different types of streams supported by java? Explain. A 8 data file "emp.txt" contains name, address and salary of 30 employees. Write a program to display only those records who are from "Kathmandu". 4. a) Create a swing GUI that contains a two buttons (add and subtract) and three text fields. When the buttons are clicked sum or difference of values of first two text fields should be displayed in the third text field b) Explain the use of URL and URL Connection class with a suitable respectively. a) Write a program to display all records from the database table. Assume program. the name of database and table yourself. b) Differentiate between TCP and UDP. Create a TCP client application weer and sends it to the server. am? List out the steps for

Saved successfully

converting app	let	into	ann	lication
and and and a			"PP	Louis Oil.

b) How can you create closable frames in swing and AWT? Write a program to draw a bar chart.

7. Write short notes on: (Any two)

2×5

- a) Reflection API
- b) History of Java
- c) JDBC API

Level: Bachelor Semester: Spring Year : 2018

Programme: BE
Course: Programming in Java

Full Marks: 100
Pass Marks: 45

Time : 3hrs.

Candidates are required to give their answers in their own words as for as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

- a) What do you mean by architectural-neutral? What are wrapper classes?
 Explain.
 - b) Mention the scope of all modifiers (private, default, protected and public). Write suitable program to illustrate the concept.
- a) What is method overloading? Can you override a private or static method in Java? Explain with an example.
 - b) How does interface differ from abstract classes? Elaborate using code snippets to justify.
- a) Explain about FileReader and BufferedWriter class. How do you create own exception subclasses? Explain with an example.
 - b) What are the differences between applet and normal java program? Create an applet with the functionalities to play, stop and repeat the audio.
- 4. a) Create a swing GUI that contains a text field and a button. When the button is pressed the content in the text field should be changed into uppercase and background color of text field should be changed.
 - b) Demonstrate various drawing methods. How do you create, load and display image?
- a) Differentiate between TCP and UDP sockets. Explain InetAddress class.

b) A database "testdb" contains a table "employee" with some records having id, name, post, salary. Write a program to update the salary to 50000 whose post is "Manager".

7. Write short notes on (Any Two):

- a) Inner Class
- b) C++ Vs Java
- c) Types of JDBC drivers

Level: Bachelor Semester: Fall Year : 2017 Programme: BE Full Marks: 100 Course: Programming in Java Pass Marks: 45 : 3turs. Time Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. Justify the statement," Java is designed for distributed application". 7 a) Explain the different types of Java variables. Explain with example: static block, static variable and static method. 8 b) Why main method is always static and public in Java? How can you achieve multiple inheritance in java? Explain with a a) suitable program. What are the main uses of super, finalize and this keyword? Explain 3 b) how a package is created and accessed while developing an application in Java. Write a program to store object of a class Student into a file a) "student.dat" also read the objects from same file and display the state of objects on the screen. Handle possible exceptions. Differentiate error with exception. Write a program to create your own S bi exception class in java. Explain Applet Architecture. How can you convert applet to 11 application? Explain with suitable example. How Event is handled in Java? Write a Java program to create a swing application with 3 buttons representing your favourite colors. When a b) button is clicked, the background color must change to the

1.

4.

anding color

method with suitable example program.

b) What are the different types of JDBC statements available? Explain with example.

7. Write short notes on: (Any two)

- a) Socket Programming in Java
- b) JDBC Driver types
- c) Reflection in Java

L	evel: Bachelor	C			
	rogramme: BE	Semester: Fall	. Year	: 2016	
	ourse: Programming in Ja	1/0		rks: 100	
	ogramming in Ja	iva	Pass Ma		
			Time	: 3hrs.	
C	Candidates are required to s practicable.	give their answers i	n their own wo	ords as far	
	he figures in the margin i	indicate full marks			
		marks.			
-	Attempt all the questions.				
()	How does Java support	re-usahility? Provide	evamples		7
				in lava	8
)	Discuss about the cor Illustrate with a code ex		anable monig	, III Java.	٥
1)	Make a class Human w	ith a name and age.	Make a class	Employee	8
	inherit from Human. A	add instance variable	salary of typ	oe double.	
	Supply a method show	Data() that prints the	Employee's i	name, age,	
	and salary. Make a cla	ass Manager inherit	from Employe	e. Supply	
	appropriate showData() methods for all	classes. Provi	de a test	
9	program that tests these	classes and methods.			3
b)	Why is exception hand	ling essential? Differ	rentiate betwee	n checked	2+5
,	and unchecked exception	ns with relevant exam	iples.		
2)	- L the life co	ucle of an Applet.		AS A SECOND CONTRACT	5
a)	Write an Applet progra	am to illustrate the r	nessage sharin	g between	5
b)	HTML and Applets.		5		
72.0	Differentiate between P	anel and Frame.			5
0)	Differentiale between		1 "DI	ACV" and	R

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Level: Bachelor Semester: Spring Year : 2017 Programme: BE Full Marks: 100 Course: Programming in Java Pass Marks: 45 Time : 3hrs. Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. Define Java as Platform Independent Programming Language. a) What is constructor, Explain with example? b) Write a program to show the usages of various data types in java. a) Define Inheritance. Write a program which has two classes A and B. b) where A should act as Parent class and B should inherit from A. Define Exception handling with Example. a) Create a Frame which has three textfield and one button. When user b) clicks on button it should calculate sum of the value of first and second textfield and display on third textfield. What is difference between Interface and Class? Explain with an 8 a) Write a program to read content from file "abc.txt" and store it in b)

What are applets? Define Applet life cycle with Example.

client to server using java socket programming.

Table: student

Write a program to send "Message from Pokhara University" from

Define JDBC. Write a program to update data on following table.

1.

2.

3.

4.

5.

6.

a)

b)

a)

Level: Bachelor Programme: BE

Semester: Spring

Year

: 2016

Course: Programming in Java

Full Marks: 100 Pass Marks: 45

Time

: 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

- Define java. Write a program to print "Hello Java" in a console. a)
 - Define Polymorphism. How should we implement polymorphism in b) java? Explain with Example.
- What is interface? Define with Example. a)
- Create a class MyClass in a package MyPack. Import newly created b) class MyClass from IpmClass.
- What is the usage of exception handling? Define with example. a) 3.
 - Create a program to write "Hello World" in a file abc.txt. b)
- Define Applet life cycle. 4 a)
 - What is Frame? Create a frame with following attributes: b)

Height = 400

Width = 400

Create a Frame with one button and one textfield, when user clicks on the button the text entered on textfield should be changed to 5. Life Event Handling with various types of event available on java. uppercase.

 6. a) What is a ResultSetMetadata. Provide a simple example code to illustrate its usage: b) Discuss about the different types of database drivers 7. Write short notes on: (Any two) a) Assignment vs. initialization b) Closable JFrame c) Runtime Polymorphism in Java 	8
7. Write short notes on: (Any two) a) Assignment vs. initialization b) Closable JFrame	
7. Write short notes on: (Any two) a) Assignment vs. initialization b) Closable JFrame	7
a) Assignment vs. initialization b) Closable JFrame	200
b) Closable JFrame	2×5
c) Runtime Polymorphism in Java	

		Level: Bachelor Semester: Spring Programme: BE	Year Full Mari Pass Mar		
		Course: Programming in Java	Time	: 3hrs.	•
-		Candidates are required to give their answers in their as practicable.	own word	ds as far	• •
		The figures in the margin indicate full marks.			•
		Attempt all the questions.	1745		
		•	*	•.	l IV
1.	a)	makes Java machine independent.			8
•	b)	why is multiple inheritance not supported in Java.			·· 7
2.	a)	code what is reflection? Why do we need reflection? Exp	plain with	sample	. 7
3.	b)	program	a? Explai	n with	8
٥.	a) b)	Explain how to dipole	d to Java	Applet.	5
4.	c) a)	What is the diff. GridBag Layout and Grid I avo			5 5 5 8
	b)	Write a program desklop.	aine in the	front	8
5.	2)	Write a program to draw a Bar Char of the total nur appearing exam in Java. Also, provide Bar Chart for Hint: Each Bar can be drawn using drawRect() and fill URL. Write a allie of your desktop.	HUIIIIME A.		7
٦.	a)	What is an URL. Write a Java program (-) and fill	Rect() mas	ا ا	
	b)	What is an URL. Write a Java program for reading cor URL. Write a client program which corrections	itents in a	nod. given	7

		Level: Bachelor Programme: BE	Semester: Spring	Full Marks: 1	
		Course: Programming in J	iava	Pass Marks: 4 Time : 3	hrs.
		Candidates are required to as practicable.	o give their answers in the	eir own words as	far .
		The figures in the margin	indicate full marks.		*
		Attempt all the questions.		4	
1911	1712	W- (MATERIAL / 1970) 10 10 10 10 10 10 10 10 10 10 10 10 10		10	٠.
1.	a) b)	makes Java machine ind	pendent? Explain the use ependent.		
1	1 1230	The state of the summer of the state of the	ance not supported in Java		
2.	a)	what is reflection? Why	do we need reflection? E	xplain with samp	ple . 7
	b)	How can you create y	our own exception in Ja	ava? Explain w	ith 8
3.		DISCUSS about the Soudh			, 0
	b)				
4.	a)	What is the dim	Layout and Grid Lay	out.	et. 5 5 in 8
	b)	Write a poor	p	name in the from	nt -
		appearing exam in Java.	Also provide the total ni	umber of stude	
5.	a)	Hint: East D		" Hulliner of	
		URL. Write a	Java program for reading a	IIRect() method.	
	b)	soon a chent program	which a-	in a given	7
6.	a)	message from server in co Differentiate between si	which connects with server at" message to server and a possible. (Assume TCP/IP con imple statements and prep istrate their differences.	r running at port	. 8
	b)		ot and	The state of the s	
	CHE.	. Java Proge	dillerence t	Sialemani	. 8
7.	Wri	te short notes on: (Any two	f the students with "id"	field", "name".	
	a) b)	311 CUMPILE	Class". Assuming the "id" fithe students with id less the	an 100	•
	c)	Repaint method Inner Class		.00.	
		,		20	2×5
			Ÿ.		

Semester: Fall

Level: Bachelor

· 22	Programme: BE Course: Programming in Java Full Marks: 100 Pass Marks: 45 Time : 3hrs.	
	Candidates are required to give their answers in their own words as far as practicable.	
	The figures in the margin indicate full marks.	
	Attempt all the questions.	
1.	 Explain how java is platform independent. Write a java program to print "Hello Nepal" in console. 	7
ng:	*	8
2.	a) Write a java program to demonstrate runtime polymorphism via method overriding. Write the following classes: Animal as a base class, Cat (derived class of Animal) and Cow (derived class of Animal). Write a method eat () in Animal class and override that	8
-	b) What are exceptions? Write a program to input an integer from keyboard and print it on the console. Fire an exception if the input is	7
	other than integer using try and catch blocks. a) Write down the steps for converting java application to java applet.	5
3.	b) Write an applet program with three text fields with the following names: "number1", 'number2" and "result". When the user clicks a names: "number1", 'number2" and the two number in "number1" and	5
	"number2" should be displayed in the text field named "result". "number2" should be displayed in the text field named "result". "number2" should be displayed in the text field named "result". "number2" should be displayed in the text field named "result". "number2" should be displayed in the text field named "result".	5
	c) What do you mean by Bolder Layout.	8
4.	a) Write a following program using Frame. i. It should have three Text Field and one Button	
	ii. It should accept 2 numbers iii. When user clicks the button, it should calculate the sub of two number entered in two Text Field and display the result	
	b) Write a program to display "Pokhara University" inside an ellipse. Note that the string should be in serif font with size 20 and style bold.	7

			its usage in igva				7
a)	Define Socket pro	ogramming and	ils usage in java.	ogram us	ing t	he	8
b)	What do you me	ean by URL? I	Provide a simple pr	ogram as			
	URL class to sho	w URL process	ing in java.		4		0
ai	What do you mea	n by JDBC Dri	vers? Write short not	es about :			8
	ii. Java Nat	ive Driver					7
bi	Write the steps to	insert data in fo	ollowing table				1
	Column	DataType					
	Id	number					
	Name	varchar					100
	Roll	number					
Wr	ite short notes on:	(Any two)				2	×5
a)	Reflection					_	-
b)	Data Types						
c)	Closable Frames						
	b) b) Wr a) b)	b) What do you med URL class to show as What do you mea i. JDBC-Oli ii. Java Nati b) Write the steps to Table name: See Column Id Name Roll Write short notes on: (a) Reflection b) Data Types	What do you mean by URL? It URL class to show URL process What do you mean by JDBC Driver i. JDBC-ODBC Bridge ii. Java Native Driver b) Write the steps to insert data in formation and the student Column DataType Id number Name varchar Roll number Write short notes on: (Any two) a) Reflection b) Data Types	b) What do you mean by URL? Provide a simple provide a si	What do you mean by URL? Provide a simple program using URL class to show URL processing in java. What do you mean by JDBC Drivers? Write short notes about: i. JDBC-ODBC Bridge ii. Java Native Driver b) Write the steps to insert data in following table Table name: student Column DataType Id number Name varchar Roll number Write short notes on: (Any two) a) Reflection b) Data Types	What do you mean by URL? Provide a simple program using to URL class to show URL processing in java. What do you mean by JDBC Drivers? Write short notes about: i. JDBC-ODBC Bridge ii. Java Native Driver b) Write the steps to insert data in following table Table name: student Column DataType Id number Name varchar Roll number Write short notes on: (Any two) a) Reflection b) Data Types	What do you mean by URL? Provide a simple program using the URL class to show URL processing in java. What do you mean by JDBC Drivers? Write short notes about: i. JDBC-ODBC Bridge ii. Java Native Driver b) Write the steps to insert data in following table Table name: student Column DataType Id number Name varchar Roll number Write short notes on: (Any two) a) Reflection b) Data Types

Level: Bachelor Semester: Spring Year : 2014

Programme: BE

Course: Programming In Java Year : 2014

Full Marks: 100

Pass Marks: 45

Time : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

program are known as portable and architecture neutral.

Provide 8

b) Differentiate between package and interface in Java. Provide

examples for each of them.

- Student and Employee in Java. A person has a name, address, phone number and e-mail address. A student has a class status (freshman, sophomore, junior or senior). Define the status as a constant. An employee has an office, salary and date-hired. Implement the above classes in Java. Provide Constructors for classes to initialize private variables. Override the to String method in each class to display the class name and the person's name. Write an application to create objects of type Student and Employee and print the person's name and the class name of the objects.
- b) Why do we need to serialize an object? Write a program to read numbers from the console using the Input Stream. Also, apply the method of object serialization in your program.
- a) How can a HTML file pass data to an applet? Explain with relevant 5 code tags.
- b) Write an applet program with three textfields with the following names:
 "number1", 'number2" and "result". When the user clicks a "sum" button then the sum of the two numbers in "number1" and "number2" should be displayed in the text field named "result".

c) Differentiate between Gridbag Layout and Grid Layout.

5

8

Semester - Fall

Year

बाबकुमारी, लेलितपुर ९६४१४९९४९२ स्ट**ाह टेटा**।७५७

: 2013

Level: Bachelor

Programme: BE Full Marks: 100 Course: Programming in Java Pass Marks: 45 Time : 3hrs. Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. How java is more secure than other programming language? Explain. Write a java program to generate the following triangle using for loop. 0 1 1 0 1 0 1 0 1 c) Explain the uses of super and this keyword with suitable example. What are the significant uses of interface? Explain how it is implemented in java. Write a function that takes an array of integers as an argument and returns sum of even numbers in that array. Explain the user defined Exceptions with suitable java code. b) What is user define package? Illustrate the process of defining and using define package with suitable example. What is an Applet? Write an applet program to play an audio file. The name of audio file is supplied from HTML tag. What is an event? Briefly explain the models available for event handling. Write down the significant uses of URL and URL Connection classes. 5. What is the difference between TCP/IP Programming & datagram 8 Programming? Briefly explain the Classes and Methods that are used to create a TCP/IP Server application. What are the steps involved for making a connection with a database. 8 6. Write a Java program to extract and display the information in console from ABC table of Ms-access with suitable values. The ABC table has AAA and BBB fields. स्थाम स्टरनरा सञ्जावस एण्ड भाटावास साजव (62

1	a)	What are heavyweight components in Java? Are there any alternatives to those heavyweight components? Provide a comparative illustration.	8
	153	Write a program to draw a Bar Char of Number of Students giving	7
		exam for Java, C and C++.	7
	a)	Differentiate between URL and URL Connection class with relevant examples.	
	h)	Discuss the process of creation of serve, and client sockets with	8
	(80.0)	Exceptions handled explicitly with a suitable example.	
Æ			8
to	a)	What do you mean by JDBC Drivers? Write short notes about:	0
		 JDBC-ODBC Bridge. 	
		ii. Java native Driver.	4
	b)	Write a simple Java Program to connect ms access database and insert	7
		data in the table named "Student" which have four fields named "id", "name", "address", "DOB", and "Class".	
7,	Wr	ite short notes on: (Any two)	2×5
	a)	Dialog Box.	213
	b)	Closable Frames.	
	0)	Inner Class.	

10

• 1

Define JDBC and ODBC. Briefly explain the different types of JDBC driver.

Write short notes on any two:

- a) Dynamic Dispatching
- h) Layout Management
- Graphics object

MAKA UNIVERSITY

Level: Bachelor Semester: Spring Programme: BE Yéar Course: Programming in Java : 2013 Full Marks: 100 Pass Marks: 45 Time Candidates are required to give their answers in their own words as far 3hrs. The figures in the margin indicate full marks. Attempt all the questions. a) Discuss the features of Java Programming. Why Java is popular, than C/C++. b) What do you mean by interface? How do you implement interface in java. Explain with example program. Explain the following terms with suitable program. Access Protection Mechanism 11. Inner classes: b) Explain various stream classes available in Java. Write a program using any stream class for writing text to a file. a) What does security restriction means in applet? List out the attributes of applet tag and explain them. b) Write a program to create a frame in swing. The frame should contain three test fields with labels arg1, arg2 and result respectively, a menu called file with sub menus add, subtract and close. Explain the Layout Manager in detail. Write a program to change the '- 8 font of text in textfield of the Frame. The frame contains 3 checkboxes Write a simple GUI addition application that used two input dialogs to Obtain integers from the user and a message dialog to display the sum.

What is What is socket? Write a program to find local IP Address & Explain URL and URL connection class with suitable program.

a) URL and URL connection class with suitable program. Hostname of the system. Write a program to connect to a database using JDBC. Assume that database named employee with 2 database name is test Db and it has table named employee with 2 records

records.

- b) Explain different types of IDBC drives.
- 7. Write short notes on: (Any two)
 - a) Casting abstract class
 - b) Life Cycle of Applet
 - c) Frame Layout.