



KENYATTA UNIVERSIT

UNIVERSITY EXAMINATIONS 2011/2012 SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF COMPUTER SCIENCE

> OBJECT ORIENTED PROGRAMMING I **SCO 103**

DATE:

WEDNESĎAY, 11TH APRIL 2012

TIME: 2.00P.M - 4.00P.M

INSTRUCTIONS: Answer question ONE and any other TWO day's

(a) Explain what you understand by object oriented programming. provides a readules before a

(2 marl

(b) Java's bytecodes are portable. Explain. - were plet- point independent formed

(2 mar

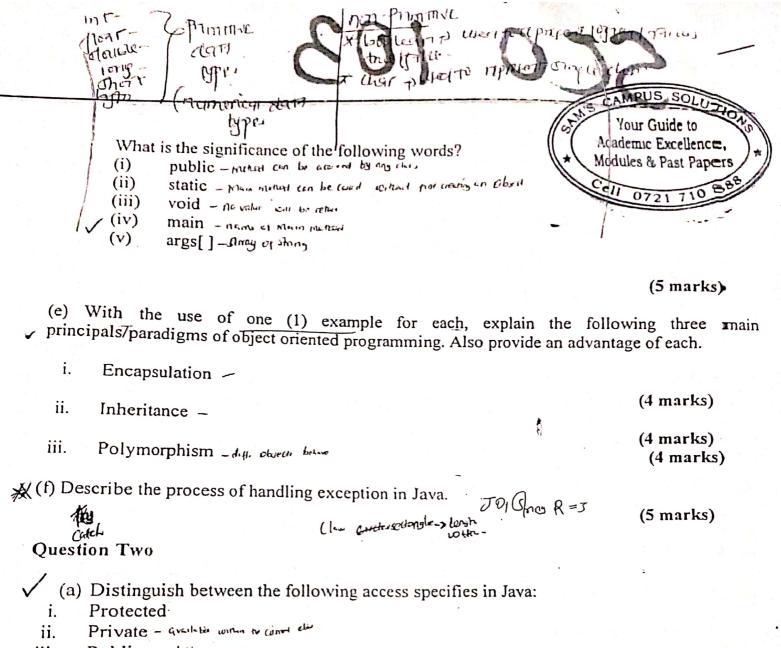
(c) Assuming that x = 2 and y = 3, what does the following statement display:

System.out.printf("%d = %d\n", (x + y), (y + x));

(d) Given the following code extract.

public static void main (String args[]){

(4 mai Your Guide to Academic Exc "ence, Modules & Pasi : .



- iii. Public -available to all class in alphane
- iv. No keyword coded

public class Test

(8 marks)

% (b) Comment on the result of the following programme:

(3 marks)

13

public static void main(String [] args)
{
 int x = 3;
 int y = 1;
 if (x = y)
 System.out.println ("Not equal");
 else
 System.out.println("Equal");

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米(c) Explain the role of the following packages in Java programming language.

(iii) java, applet (iv) javax.swing

(4marks)



Question Three

(a) Evaluate the following statement:

(6 marks)

(b) Write a Java program that creates a two dimensional array with four rows and five columns and fills it with the sum of the row and column indexes. (9 marks)

Question four

- (a) Write a simple Java program with one class that can be used to display all the integers between 1 and 100 that are divisible by both 3 and 5 (8 marks)
- √(b) Differentiate between primitive and non-primitive data types.

(4 marks)

(6) Give three primitive data types used in Java.

(3 marks)

11

Short WIL.

Question five

A certain college uses the following grading system to award grades to their students.

Mark = 75-100 A

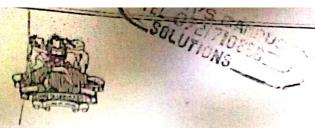
Mark= 60-74 B

Mark=50-59 C

Less than 50 Fail

Write an appropriate object oriented program using Java that can be used to read in a mark and award the grade. (15 marks)

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*(c) Explain	
(4marks) Javax.swing	ring packages in Java programming language. told of the Character that handle fundemental import a tell standard fundemental and the character in capacity the community to the community t
Question Three Work	to that, to the Meximum closer fraible,
taluate the following statement	
X=2%2\2*2.2/3	(6 marks)
4 2-213	3 3 2 1
columns and fills it with the sum	of the row and column indexes. (9 marks)
Question four	
between I and 100 that are divisionalized (b) Differentiate between primitive as property of the ferminal and fine of the property of the post of the	od non-primitive data types. (4 marks) Standard (5 marks) (5 marks)
A certain college uses the following grad	ing system to award grades to their students.
Mark= 75-100 A Mark= 60-74 B Mark= 50-59 C	gram using Java that can be used to read in a mark and
award the grade.	(15 marks)
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SCO 103 OBJECT ORIENTED PROGRAMMING 1

DATE: WEDNESDAY, 11TH APRIL 2012

TIME: 2.00P.M - 4.00P.M

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(5

Answer question ONE and any other TWO day

QUESTION ONE (30 marks)

(a) Explain what you understand by object oriented programming. provide a radius share the company of the control of t System.out.printf("%d = %d\n", (x + y), (y + x)); 5 = 5Heres each argument as string (4 marks) public static void main (String args[]) () Main" Method is declared as "future" or previde previdence of that class to member of that class to member of that class to member of the class to the public static void main (String args[]) () Main " Mothod is declared as the class of (d) Given the following code extract. allow the JVM to call Mak without the niturn type of the man method is "Void." Java Eyzecode is the form of hetmotions that the jam virtual nochine executes Fach bytecode excente is one legte in length atthrop. Som terms formation in presenting in some multiple buts in structions. boltspyith cut hives The compiler generates bytecode instructions which have nothing to reter with a sparitules computer architecture. Rather, they are designed to be both easy to interfrence on any Muchine and easily tractored to