Department of Computer Science and Engineering

Mid Term Examination (September, 2016)

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Course Title: Object Oriented Programming	Course Code: CSE 211		
Time: 40 minutes	Full Marks: 20		
Q1. What are the requirements of automatic type conversion	of Java's primitive data types? 3		
Q2. When you will use enhanced for loop in Java? Give an Example.			
Q3. What are the two uses of final keyword in Java?	. 2		
Q4. Correct the following code in Java:	2.5		
static void fun(inta, double k, charc)			
	8)		
Statements//			
Q5. Below code is showing compile time error. Can you sugg	est the corrections?		
1	4-7		
<pre>class X { public X(int i) }</pre>			
System.out.println(1);)			
class Y extends X			
public Y()			
System.out.println(2);			
Q6. What is the output of the following Java program?			

```
class A
{
    static
    {
        System.out.println("THIRD");
}

class B extends A
{
    scatic
    {
        System.out.println("SECOND");
}

class C extends B
{
    static
    {
        System.out.println("FIRST");
}

public class MainClass
{
    public static void main(String[] args)
    {
        C c = new C();
}
```

Premier University, Chittagong Department of Computer Science and Engineering 3rdSemester-Sec(B) Mid Term Exam, March-2017

Course Title: Object Oriented Programming Course Code: CSE 211 Time: 45. minutes

Total Marks: 20

```
What is Bytecode? What are the uses of static keyword in Java?
Q1.
     Differentiate between method overloading and method overriding in Java.
                                                                                                              3.5
     Write down the output of the following code:
     lic class PassA {
                             public static void main(String [] args) {
      PassA p = new PassA();
      p.start();
                              static void start() {
                                  leng [] al = \{7,9,12\};
                                  long [] a2 = fix(a1);
      System.out.print(a1[0] + a1[1] + a1[2] + "");
      System.out.println(a2[0] + a2[1] + a2[2]);
                               long [ ] fix(long [ ] a3) {
                                         a3[1] = 7;
                                         return a3;
      What is the output of following java program:
O4.
      class Test {
         public static void main(String args[]) {
           int x = -4;
           System.out.println(x>>1);
           int y = 4;
           System.out.println(y>>1);
                                                                                                               2
      What is 'public static void main ( String args[ ] ) ' signifies?
       Why variable length arguments are useful? Give an example of using var-length arguments in
 Q6.
       a method in Java.
```

3.5

Premier University, Chittagong Department of Computer Science and Engineering 3rdSemester, Mir^t Term Exam, September-2017

Course Title: Object Oriented Programming Course Code: CSE 211

Total Marks: 20

Time: 1 Hour

```
2
      What are the restrictions of static methods in Java
01.
Q2.
      Give an example of using enhanced for loop in Java.
      Write down the output of the following code:
Q3.
      class Clidder
         private final void flipper()
      System.out.println("Clidder");
      public class Clidlet extends Clidder
         public final void flipper()
       System.out.println("Clidlet"):
         public static void main(String[] args)
            new Clidlet().flipper();
       What is the output of following java program:
       class Derived
         publicvoidgetDetails(String temp)
            System.out.println("Derived class "+ temp);
       publicclassTest extendsDerived
          publicintgetDetails(String temp) .
            System.out.println("Test class "+ temp);
            returni);
```

Considering the following illustration and inheritance rules, design the classes.

Shape draw()

draw()

erase()

	erase()	
Circle	Square	
draw()	draw()	Triangle

erase()

b. Write down the significance of static keyword in Java.

erase()

Explain the life cycle of a thread with necessary block diagram. h.

2+3

When is it a must to implement multithreading with the Runnable interface instead of extending the Thread class? Give a simple example of a multithreaded java program using Runnable interface.

What is the output generated by the following Java program fragment? public static void main(String[] args)[int A = 10: 3

int B = 20; update(A, B); System.out.println(A+ " " + B); public static void update (int X, int Y) X = X + Y: Y = Y + XSystem.out.println(X + " " + Y):

What are the purposes of throw and throws clauses? b.

Justify the statement - "When you assign one object reference variable to c. another object reference variable, you are not creating a copy of the object, you are only making a copy of the reference".

Department of Computer Science & Engineering 3rd Semester Final Examination, June 2018 Course Title: Object Oriented Programming

Course Code: CSE 211

Time: 3 Hours

Total Marks: 50

Answer any five (5) from following seven (7) questions.

Q.1 What is Object-Oriented programing? How are data and functions organized Write down the differences between b. Primitive types and Reference types (ii) String and StringBuffer classes Explain dynamic method dispatch with example. Q.2 What are the uses of 'final' keyword? Explain with examples. Suppose there are 7 methods defined as follows: void f1(), void f2(), void f3(). b. There are also 4 interfaces named as: Interface 11, 12, 13 and 14. There is also a class named MyClass that needs to be forced to implement all the 7 methods. But there are some constraints: Each interface can define at most 2 methods. MyClass can only implement 1 interface. How can you achieve this scenario? You can write code if needed. What is the difference between declaring a variable in a class with protected access modifier rather than no modifier? 2 What are the two types of nested classes in Java? Briefly describe them, Q.3 a. What is the role of garbage collector in Java? How can an object be b. unreferenced? How to eatch an exception in Java? Explain with an example, c. Write down the differences between constructor and method. Explain 5 constructor overloading with an example. Explain how interface establishes high level abstraction. b. 2 Consider the following pseudo code: 3 A ob = new A(); obj.whatIsMyName("John");

Sample output: Hello dear, John.

Now design the class A.

Page 1 of 2

Q6. What are the restrictions of using variable-length argument in a method declaration in Java?

4. Give an example of a method with variable-length argument in Java.

2.

Q7. What do you mean by partial implementation of an interface in Java?

Q5,

Department of Computer Science and Engineering

Course Code: CSE 211 Course Title: Object Oriented Programming

> 3rd Semester (Sec-A) Class Test -02

Full Marks: 10 Time: 20 minutes

Q1. Differentiate between method overloading and method overriding in Java. Q2. How to initialize superclass instance variables when creating a subclass object in Java?

Give an example.

Department of Computer Science and Engineering

CSE 3rd Semester (Sec-A) Midterm Examination, November 2018

Course Title: Object Oriented Programming

Course Code: CSE 211

Time: 1-hour		Full Marks: 20	
Answer the following questions:			
Q1. Fill in the blanks:			2.5
A Java program is first	by Javato generate an	by	2.5
	extension. This file is then	бу	
Java to create the output	it of the program.		
Q2. Fill in the blank of the following code	segment:		2.5
class Promote (public static void main(String args[]) (
byte b = 42;	₽		
char c = 'a';			
short s = 1024;			
int I = 50000;			
float f = 5.67f;			
double d = .1234;			
result = (f * b) + (i / c) - (d * s));		
/"Put the correct data type in the blank sp	pace of the above line."/		
System.out.println((f * b) + " + " + (i / c) + "	" - " + (d " s));	2.45	
System.out.println("result = " + result);			
)			
)			
Q4. Differentiate between method overload	ading and method overriding in Java.		4.5
Q5. How to initialize superclass instance viexample.	ariables from subclass constructor in Java	a? Give an	6

```
Q6. Write down the output of the following program:
class RitLogic (
public static void main(String args[]) (
String hinary[] = [
"0000", "0001", "0010", "0011", "0100", "0101", "0110", "0111",
"1000", "1001", "1010", "1011", "1100", "1101", "1110", "1111"
};
int a = 3; // 0 + 2 + 1 or 0011 in binary
Int b = 6; // 4 + 2 + 0 or 0110 in binary
intc= |b;
int d: 7 & b:
Inte-a^b;
int f = (~a & b)|(a & ~b);
int 1 = "a & 0::01;
System.out.orintin(" c = " + c);
3ystem.out.println("d = "+d);
System.out.println( e = " + e);
System.out.orintln(" f = " + f);
"in "am.aut.println(" g = " + g);
```

Department of Computer Science & Engineering JOI SEMESTER MID TERM EXAMINATION - JANUARY 2018 Course title: Object Oriented Programming (CSE 211)

Section: B

Mark: 20

Time: I hour

Q1

Write down the differences between constructor and method. Explain. 03+03 constructor overloading with an example. 0.3

Write down the significance of static keyword in Java. b

Consider the following pseudo code: ¢

03

A ply = new A(); obj.whalsMyName("John");

Sample output:

Hella dear, John.

Now design the class A.

 Ω

Consider a Java programmer wrote a program to divide a number with mother number. When the program deployed to use a elever user input like that:

D8

Unter a number: 4 Enter other number: 0

Sample output:

Exception in thread "main" java.lang.ArithmeticException: / by zero

Now, explain what was occurred while the program executed. If there any problem, how to salve the problem?

Premier University, Chittagong Department of Computer Science and Engineering 3"Semester, Mir Term Exam, September-2017

3"Semester, Mir Term Exam, September-2017 Course Title: Object Oriented Programming Course Code: CSE 211

Total Marks: 20

Time: 1 Hour

```
What are the restrictions of static-methods in Java
OL.
Q2.
      Give an example of using enhanced for loop in Java.
03.
      Write down the output of the following code:
      ches Clidder
         private final void flipper()
      System conturinting "Childer");
      public class Clidlet extends Clidder
         public final void Hipper()
       System.out.printlnt"Clidlet");
         public static void main(String[] args)
            nzw Clidlet().flipper();
                                                                                                             3
      What is the output of following java program:
       class Derived
         public-verdeetDetails(String temp)
            System.out.println("Derived class "+ temp);
       publiculassTest extendsDerived
          publicintgetDetails(String temp)
            System out println!"Terl class "1 temp);
            return(),
```

```
System.out.println("b = " + b);
                                         System.out.println("z = " + e);
            Give an example of for-each style for loop in Java.
03.
      (11)
             Why static nested classes are not used very often in Java?
       (d)
             Why the following code is showing compilation error? Correct the code so that it can be
       (c)
             compiled
             class Outer ;
                            int outer x = 100.
                            woid tester 7
                                          Inner inner = new Inner():
                                          inner.display();
                             class luner I
                                           int y = 10.
                                           yord display()
                                                System.out.println("display: onter_x = " + onter_x);
                              yord showy();
                                               System.oncprintfuly);
               class InnerClassDemo !
                                         public static void maintString args[])
                                              Omer outer = new Outer():
                                              outer.test()
                How to access the command line argume us inside a Java Program? Give an example.
                                                                                                         3
          (d)
                How lava simplifies the creation of most ids that need to take a variable number of
                                                                                                         3
                arguments? Give a short note on this with example.
   Q4.
          tar
                What restriction applies to a normal class when it needs to extend an abstract class?
                                                                                                         I
                Super keyword has two general forms in Java. What are those two forms? Give an
           (11)
           (c):
                example of one of this form
         Pugu Zola - OPP
```

11/1

25.

)6.

Q7.

- (b) Why Swang components are known as hightweight components?
- (c) How AWT event handling is performed? Give an example,
- (d) A panel has been created with following code. Panel pul – new Paneltnew Flowl ayout it: If some components are added in the panel, how will they be arranged in this layout?