94 學年度第2 學期物件導向程式設計期中測驗 , (Chl) A variable of type boolean can be explicitly converted to that of type int, (Ch1) An advantage of using the Unicode character set is that it easily handles languages other than English. (Ch1) Applets were designed to run as stand-alone applications. (Chi) In Java, allocated mornory that is no longer needed stand be deallocated. (注例 表示 5) (Ch2) Every Java program automatically imports the java .util package. | org (Ch3) The equality operator (==) may be used to test if two string objects contain the same value. (Ch3) The three expressions at the start of a for statement are separated by two commas. (Ch3) In a switch statement, the default case is always executed. (Ch4) An object of class A is an instance of class A. (Ch4) The Java language supports global variables. (Ch4) Java supports operator overloading. (Ch4) Only the default constructor has the this parameter, (Ch4) Because of pass-by-value, the passed contents of the object can be changed in the called method, but the original object reference is never changed. (Ch5) In a static method, you may use the this parameter either explicitly or implicitly. (Ch5) The String class is a mutable class. Throatable. (Choices) (30%) (Ch1) Identify the invalid Java identifier. (a) I Week (b) Week I (c) amount Due (d) amount due (Chi) In Java, source code is compiled into object code called (a) Bit-code (b) Class code (c) Method code ((d) Byte-code (Chl) The value of the expression (int) 27.6 evaluates to: (a) 28 (b) 27)(c) 26 (d) None of the above. (Ch1) What is the value of the variable o in the statements that follow? String phrase = "Make-hay While the sun is shining."; char o = phrase.charAt(10); (a) (b) h (c) 1 (d) None of the above (Ch1) To mark a block comment for inclusion in the Javadoc documentation, the block must be

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         (Ch3) The controlling expression for a awitch statement includes all of the following types except
          (a) char (b) int (c) byte (d) double
         The looping mechanism that always executes at least once is the
         (a) if...else( (b) do...while (c) while (d) for
                             statement terminates the current iteration of a loop.
        (a) Break (b) Continue (c) Switch (d) Assert
         (Ch3) When using a compound Boolean expression joined by an && (AND) in an if statement:
         (a)) Both expressions must evaluate to true for the statement to execute.
              The first expression must evaluate to true and the second expression must evaluate to false for the
             The first expression must evaluate to false and the second expression must evaluate to true for the
              statement to execute.
             Both expressions must evaluate to false for the statement to execute.
         (Ch4) Java has a way of officially hiding details of a class definition. To hide details, you mark them
         (a) public (b) protected (c) private (d) all of the above
        (Ch4) 17) The name of a method and the list of ______ types in the heading of the method definition
         is called the method signature.
         (a) parameter (b) argument (c) return (d) primitive
(Ch5) Only
                           copy/copies of a static variable are available to objects of a class.
       (a) one (b) two (c) three (d) none of the above
        (Ch5) All of the following are wrapper classes except:
        (a) String (b) Integer (c) Character (d) Double
        (Ch5) When you use the assignment operator with variables of a class type, you are assigning a:
        (a) value (b) primitive type (c) local variable (d) reference.....
        (Ch5) A condition that allows a programmer to circumvent the private modifier and change the private
        instance variable is called:
        (a) a copy constructor (b) a privacy leak (c) a class invariant (d) an anonymous object
                                                                                            boolean
        List the primitive data types Java supports, Indicate the number of bytes each type used.
       Describe the detailed construction process of the following statements:
             Integer top = new Integer (19); WINDING 0065
       Correct the following code:
        public class EX {
            public woid main (String args)
                 4 \text{ong } x = 0
                  for (x = 1; x < 20; x++) (
                       switch (x % 2) (
                           case 1: System.out.println(x + " is odd"); hadab
                           case 0: System.out.println(x + " is even");
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94 李年度第2 學期物件等向程式設計期中側歇 (D) The value cannot be predicted (Ch7) Which statements are true? Overriding is just another term for overloading Overloading only can be done within an inheritance structure Overriding only can be done within an inheritance structure You can overload a constructor You can override a constructor 730 10 17 (A) Only statements (c) and (d) are true (B) All the statements are true (C) Only statement (d) is true (D) True statements: (b), (c), (d), and (c) (E) None of the above 4. / (Ch?) If the (£1 na 1 modifier is added to the definition of a method, this means:
(A) The method may be redefined in the derived class,
(B) The method may be redefined in the sub class. (C) The method may not be redefined in the derived class. (D) None of the above. (Ch?) A method or instance variable modified by protented;
(Ch?) A method or instance variable modified by protented;
(Ch.) Can not be accessed by name inside any class derived from it.
(Ch.) Con not be accessed by name in the definition of any class in the same package.
(Ch.) Ch.)
(Ch.) Which natement is true? (Ch8) Which statement is true) (A) You can declare a class to be both final and abatract so long as it doesn't contain any methods (b) You cannot declare a class to be both final and abatract (c) There is no problem declaring a class to be both final and obstract DY You can declare a class to be both Final and abstract so long as it also is declared to be stated refers to the ability to associate many meanings to one method name by means of the late binding (A) Inheritance (B) Encapsulation (C) Polymorphism (D) None of the above (Ch8) An abstract method cannot be modified by: (A) public (B) protected (C) private (D) none of the above parameters. (Ch9) The catch block has (A) zero (B) one (C) two (D) three (Ch9) If a method throws an exception, and the exception is not eaught inside the method, then the method invocation: (A) terminates) (B) transfers control to the catch block (B) transfers control to the exception handler (D) hone of the above ,11. (Ch9) ArrayIndexOutOfBoundsException is a descendent of the class RuntimeException. This theans:

(A) the exception must be caught (b) a finally block must be included (C) the exception does not have to be explicitly caught (D) none of the above

	e/Palse) (30%) (Ch6) An arrays length instanc	e variables va	iue can be changed by a prog	ram.		
- W	(Ch6) An array of chars is the same as a String in Java.					
W	(Chó) A variable of an enumerated type can have the special value null.					7
Γ. ^{4.} .	(Ch?) A derived class contains only public instance variables and public methods from the base class.					
115/	(Ch7) Overriding is when a de	rived class red	efines a method from the bas		chille.	
۷.۷)	(Ch7) Private methods of the	te base class a	re not avallable for use by de	rived classes.		
7.	(Ch8) Java allows an instance	ofan abstre	ot class to be instantiated.	*		
	(Ch8) Java uses late binding w	ith private	methods, methods marked £	inal, or atati	i.a methods.	
9.4	(Ch8) An abstract method	serves as a <u>pl</u> a	ceholder for a method that m	ust be defined in	i all derived classes.	
(10.	(Ch9) When an exception is the		o in the surrounding txy, blo	k continues exe	cuting and then the	
T(\$1.)	(Ch9) Exceptions that must follow the Catch or Declare Rule are often called checked exceptions.					
FB	(Ch9) You can not place a try eatch block	block and its	following catch blocks ins	lde a larger try	block or inside a larg	ger
T-13.	(Ch13) A class may only imple	ement one inte	rface.			
F)	(Chia) You can not derive an	Interface from	a base interface.		•	
10	(Chi3) Java source code that chile for the funer class.	contains a clas	s with an inner class, when c	omplied, will pro	oduce a separate .clas	is
رca کې i.	olces - Single) (39%) (Ch6) A method to compute the is incomplete;	sum of all e	lements in an array of int is	needed. The fol	lowing proposed met	thod
	1. public int t	otal(int	() ×′)			
	3. int i, t		t to go here			
	5. (k(1++) :	t= + 4x[i+]	•		
	7. 8. return t		, , , ,			
	9.) . What is the correct statement		•		4) p
	(A) for (int i = 0;	1 < x.len	•		3 16	۹.
	(B) for (i = 0; i < . (C) for (i = 0; i < .				143	آئي
	(B) for (i = 1, i <= (B) None of the above					7
122	(Ch6) After the following cod	le has been ex	ecuted, what will the first ele	ment of the array	y contain?	
ワ	String[] types =				. 300000	

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(A) instance variables (B) primitive variables (C) constant variables (D) all of the above

A (Chi3) An Interface and all of its method headings are normally declared to be: (A) public (B) private (C) protected (D) package access

(A) public (B) private (C) protected (D) Package access

C (Ch13) An interface may contain:

(A) An empty string

(B) The null value

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         public class B extends A (
               public void mi() (
                                                                                                                                   94 學年度第2 學期物件導向程式設計期中測驗
                    System.out.println(20)
                                                                                                                (Ch13) Consider the following outline of the declaration of a normal class with an inner class.
                                                                                                                          public class NormClass (
                                                                                                                              public class NestedClass (
     Given the above two class declarations and
                                                                                                                                  7/ methods and variables of NestedClass
         A[] ref = new A[2];
ref[0] = new A();
                                                                                                                               // methods and variables of WormClass
 ref[1] = new B();
(true or falso) ref[1],b=20; is legal.
                                                                                                                Which of the following is the correct way for amethod inside NestedClass to refer to the enclosing instance
    (true or false) ref [1] .ml() This statement will print out "20" (true or false) class B inherits the constructor from class A
                                                                                                                of NormClass?
                                                                                                                (A) this
    (4) System.out.println(ref[]].ino() + ref[2].ino());
                                                                                                                (B) NormClass, this
        (true or false) The above statement will print out "2"
                                                                                                                (C) this NormClass
                                                                                                                (D) this, this
                                       (oliviso)
4. Read the following class definition:
                                                                                                                (E) this super
         1. public class E extends Exception .
                                                                                                                                                                                    aline 1
                                                                                                           (Choices - Multiple) (40%)
         3. Public class (E2) extends E1 (
                                                                                                               Suppose you have two classes defined as follows:
                                                                                                                    class ApBase extends Object implements Runnable class ApBerived extends ApBase implements (begrver)
         5. Public class E3 extends Exception (
                                                                                                               Also suppose you have two variables created as follows:
         7. Jpublic class N
                                                                                                                    Appase abase = new Appase() ;
Apperived aben, = new Apperived() ;
                 public void m1() throws E1 ()
                                                                                                                                                                                     · 14.00 911!
                                                                                                               Which of the following Java statements will compile and execute without enjoy? [Check all correct answers.]
         10, public class B extends (A
                                                                                                               (A) Runnable rn - aper; C m = A
         11.
                 protected void mi() throws E2, E3 ()
                                                                                                               (A) Rumnable rn2 = [Rumnable] aBase;
         12. }
                                                                                                               (6) Observer ob = aBase;
         13. public class Test (
                                                                                                                NObserver ob2 = (Observer) aBase;
                 public static void main(String[] args)
         14.
         15.
                                                                                                              Look at the following class definition:
         16.
                         A ref = new B();
                                                                                                                       public class DarivedDemo extends Demo (
                         ref.m1()-72
         17.
                                                                                                                            int M, N, L ,
                       catch (E) e) (
         18.
                                                                                                                            public DerivedDemo( int x) int y)
         19.
                         e.printStackTrace();
                                                                                                                               Max / N=V /
         20.
         21.
                                                                                                                            public DerivedDemo( int x
         22. 1
                                                                                                                                super(x);
    Will these codes be compiled without error? If any error occurred, describe your answer to correct the codes
    without change the definitions of class £1, £2, £3, a.
                                                                                                              Which of the following constructor signatures must exist in the Demo class for Derived Demo to compile correctly?
   Read the following class definition: ( Over 2.
                                                                                                              [Check all correct answers.]
         public class A (
                                                                                                              (A) public Demo( int a, int b)
             public static final int SUNDAY
                                                                                                              (B) public Demo( int c)
             public static final int MONDAY
                                                                                                              (C)public Demo( )
             public static final int TUESDAY
                                                                                                             (D) There is no requirement for a constructor in Demo.
             public static final int WEDNESDA
                                                         = 3;
             public static final int THURSDAY
                                                                                                             Read the following class definition:
             public static final int FRIDAY
                                                         = 5;
                                                                                                                  public class A ( public int a) public static int (a) public static int (a) 0;
             public static final int SATURDRY
                                                                                         ; G
        public class Test (
             public static void print (int day) (
                                                                                                                       public void(ml() (
System.out.println(10);
                  switch [day] ( case A. MONDAY:
                       System.out.println("Weekend"); break;
                                                                                                                       public int inch
                  Defaulti
                                                                                                                           a2++;
                       Syste.out.println("Weekday"); break;
                                                                                                                            returh a2:
                                                                                                                      Sublic static void m2() (
   Please rewrite the above codes with antiminated of the original constant definitions.
                                                                                                                       public final void m3() (
                         onum on souther?

Tenum weekend & SANDAY MONDAY,
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Correct the following constructor without changing the logic.
-4.
    public class Order{
        private String acct = "AAA";
        private String item = "pen";
        private double price = 25.0;
        private int qty = 1;
        public Order (String acct, String item, double price, int qty) {
         the acct = acct;
         tw.item = item;
                                                 if (price co)
           price = (price < 0) ? 0 : price;</pre>
            qty = (qty < 0) ? 0 : qty;
                                       14. Invelse price = price
    }
   In order to avoid the privacy leakage of class A please correct the following statement.
  (hint: rewrite the accessor and mutator of attibutes math with clone constructor of class Credit)
    public class Student {
        private Credit math = new Credit();
        public Credit getCredit () {
            return math;
                                     return new Chedie (math);
        public void setCredit (Credit tmp) {
           math = tmp;
                            moth = New Credity (twp)
    public class Credit {
        private int score;
                                           Hoose Many Brown
        public Credit (Credit tmp) {
            score = tmp.score; .
    }
```