

5.0/ 5.0 Points

Question 1 of 20

```
class G {  
    static void m(Object x) {System.out.print("Object");}  
    static void m(String x) {System.out.print("String");}  
    public static void main(String[] args) {m(null);}  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: Object
- ☒ B. Prints: String
- ☐ C. Compile-time error
- ☐ D. Run-time error
- ☐ E. None of the above

5.0/ 5.0 Points

Question 2 of 20

```
class A {void m1(A a) {System.out.print("A");}}  
class B extends A {void m1(B b) {System.out.print("B");}}  
class C extends B {void m1(C c) {System.out.print("C");}}  
class D {  
    public static void main(String[] args) {  
        A a1 = new A(); B b1 = new B(); C c1 = new C(); C c2 = new A();  
        c2.m1(a1); c2.m1(b1); c2.m1(c1);  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: AAA
- ☐ B. Prints: ABC
- ☐ C. Prints: CCC
- ☒ D. Compile-time error
- ☐ E. Run-time error
- ☐ F. None of the above

5.0/ 5.0 Points

Question 3 of 20

Which of the following modifiers can be applied to the declaration of a field?(Multi choice)

- ☐ A. abstract
- ☒ B. final

- ☒ C. private
- ☒ D. protected
- ☒ E. Public

5.0/ 5.0 Points

Question 4 of 20

```
class A {void m1(A a) {System.out.print("A");}}
class B extends A {void m1(B b) {System.out.print("B");}}
class C extends B {void m1(C c) {System.out.print("C");}}
class D {
public static void main(String[] args) {
A a1 = new A(); A b1 = new B(); A c1 = new C(); C c4 = new C();
a1.m1(c4); b1.m1(c4); c1.m1(c4);
}}
```

What is the result of attempting to compile and run the program?

- ☒ A. Prints: AAA
- ☐ B. Prints: ABC
- ☐ C. Prints: CCC
- ☐ D. Compile-time error
- ☐ E. Run-time error
- ☐ F. None of the above

5.0/ 5.0 Points

Question 5 of 20

Which of the following modifiers can be applied to the declaration of a field? (Multi choice)

- ☐ A. abstract
- ☒ B. final
- ☒ C. private
- ☒ D. protected
- ☒ E. Public

5.0/ 5.0 Points

Question 6 of 20

```
class Red {
public int a; public static int b;
public static void main (String[] in) {
Red r1 = new Red(), r2 = new Red(); r1.a++; r1.b++;
System.out.print(r1.a+", "+r1.b+", "+r2.a+", "+r2.b);
}
```

}}

What is the result of attempting to compile and run the program?

- ☐ A. Prints: 0, 0, 0, 0
- ☐ B. Prints: 0, 1, 1, 1
- ☐ C. Prints: 1, 1, 1, 0
- ☒ D. Prints: 1, 1, 0, 1
- ☐ E. Prints: 1, 1, 0, 0
- ☐ F. Prints: 1, 1, 1, 1
- ☐ G. Compile-time error
- ☐ H. Run-time error
- ☐ I. None of the above

Question 7 of 20

5.0/ 5.0 Points

```
class A {void m1(A a) {System.out.print("A");}}
class B extends A {void m1(B b) {System.out.print("B");}}
class C extends B {void m1(C c) {System.out.print("C");}}
class D {
public static void main(String[] args) {
A a1 = new A(); B b1 = new A(); C c1 = new A(); C c2 = new C();
c2.m1(a1); c2.m1(b1); c2.m1(c1);
}}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: AAA
- ☐ B. Prints: ABC
- ☐ C. Prints: CCC
- ☒ D. Compile-time error
- ☐ E. Run-time error
- ☐ F. None of the above

Question 8 of 20

5.0/ 5.0 Points

```
class G {
static String m(float i) {return "float";}
static String m(double i) {return "double";}
public static void main (String[] args) {
int a1 = 1; long b1 = 2; System.out.print(m(a1)+","+ m(b1));
}
```

}}

What is the result of attempting to compile and run the program?

- ☒ A.Prints: float,float
- ☐ B.Prints: float,double
- ☐ C.Prints: double,float
- ☐ D.Prints: double,double
- ☐ E.Compile-time error
- ☐ F.Run-time error
- ☐ G.None of the above

Question 9 of 20

5.0/ 5.0 Points

```
class A {void m1(A a) {System.out.print("A");}}
class B extends A {void m1(B b) {System.out.print("B");}}
class C extends B {void m1(C c) {System.out.print("C");}}
class D {
public static void main(String[] args) {
A a1 = new A(); B b1 = new B(); C c1 = new C(); A c2 = new C();
c2.m1(a1); c2.m1(b1); c2.m1(c1);
}}
```

What is the result of attempting to compile and run the program?

- ☒ A.Prints: AAA
- ☐ B.Prints: ABC
- ☐ C.Prints: CCC
- ☐ D.Compile-time error
- ☐ E.Run-time error
- ☐ F.None of the above

Question 10 of 20

5.0/ 5.0 Points

```
class A {void m1(A a) {System.out.print("A");}}
class B extends A {void m1(B b) {System.out.print("B");}}
class C extends B {void m1(C c) {System.out.print("C");}}
class D {
public static void main(String[] args) {
A c1 = new C(); B c2 = new C(); C c3 = new C(); C c4 = new C();
c4.m1(c1); c4.m1(c2); c4.m1(c3);
}}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: AAA
- ☒ B. Prints: ABC
- ☐ C. Prints: CCC
- ☐ D. Compile-time error
- ☐ E. Run-time error
- ☐ F. None of the above

Question 11 of 20

5.0/ 5.0 Points

Which of the following modifiers can be applied to a constructor?

- ☒ A. private
- ☐ B. abstract
- ☐ C. final
- ☐ D. volatile
- ☐ E. native
- ☐ F. None of the above.

Question 12 of 20

5.0/ 5.0 Points

```
class G {  
    static String m(int i) {return "int";}   
    static String m(float i) {return "float";}   
    public static void main (String[] args) {  
        long a1 = 1; double b1 = 2; System.out.print(m(a1)+"," + m(b1));  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: float,float
- ☐ B. Prints: float,double
- ☐ C. Prints: double,float
- ☐ D. Prints: double,double
- ☒ E. Compile-time error
- ☐ F. Run-time error
- ☐ G. None of the above

Question 13 of 20

5.0/ 5.0 Points

Which of the following modifiers can be applied to a class that is not a nested class? (Multi choice)

- ☒ A. public
- ☐ B. protected
- ☐ C. private
- ☒ D. abstract
- ☐ E. static
- ☒ F. Final

Question 14 of 20

5.0/ 5.0 Points

Which of the following statements is true?

- ☐ A. An abstract method can not be overridden by an abstract method.
- ☐ B. An instance method that is not abstract can not be overridden by an abstract method.
- ☐ C. An abstract method declaration can not include a throws clause.
- ☐ D. The body of an abstract method is represented by a set of empty brackets.
- ☒ E. None of the above.

Question 15 of 20

5.0/ 5.0 Points

```
class G {  
    static String m(float i) {return "float";}   
    static String m(double i) {return "double";}   
    public static void main (String[] args) {  
        char a1 = 1; long b1 = 2; System.out.print(m(a1)+", "+ m(b1));  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☒ A. Prints: float,float
- ☐ B. Prints: float,double
- ☐ C. Prints: double,float
- ☐ D. Prints: double,double
- ☐ E. Compile-time error

- ☐ F.Run-time error
- ☐ G.None of the above

Question 16 of 20

5.0/ 5.0 Points

```
abstract class A {} // 1
transient class G {} // 2
private class C {} // 3
static class E {} // 4
```

Suppose these are top-level class declarations and not nested class declarations. Which of these declarations would not produce a compile-time error?

- ☒ A.1
- ☐ B.2
- ☐ C.3
- ☐ D.4
- ☐ E.None of the above

Question 17 of 20

5.0/ 5.0 Points

```
class A {} class B extends A {} class C extends B {}
class D {
void m1(A a) {System.out.print("A");}
void m1(B b) {System.out.print("B");}
void m1(C c) {System.out.print("C");}
public static void main(String[] args) {
A c1 = new C(); B c2 = new C(); C c3 = new C(); D d1 = new D();
d1.m1(c1); d1.m1(c2); d1.m1(c3);
}}
```

What is the result of attempting to compile and run the program?

- ☐ A.Prints: AAA
- ☒ B.Prints: ABC
- ☐ C.Prints: CCC
- ☐ D.Compile-time error
- ☐ E.Run-time error
- ☐ F.None of the above

Question 18 of 20

5.0/ 5.0 Points

```
class A {void m1(A a) {System.out.print("A");}}
class B extends A {void m1(B b) {System.out.print("B");}}
```

```

class C extends B {void m1(C c) {System.out.print("C");}}
class D {
public static void main(String[] args) {
A c1 = new C(); B c2 = new C(); C c3 = new C(); C c4 = new C();
c4.m1(c1); c4.m1(c2); c4.m1(c3);
}}

```

What is the result of attempting to compile and run the program?

- ☐ A.Prints: AAA
- ☒ B.Prints: ABC
- ☐ C.Prints: CCC
- ☐ D.Compile-time error
- ☐ E.Run-time error
- ☐ F.None of the above

5.0/ 5.0 Points

Question 19 of 20

```

class A {void m1(A a) {System.out.print("A");}}
class B extends A {void m1(B b) {System.out.print("B");}}
class C extends B {void m1(C c) {System.out.print("C");}}
class D extends C {
void m1(D d) {System.out.print("D");}
public static void main(String[] args) {
A a1 = new A(); B b1 = new B(); C c1 = new C(); D d1 = new D();
d1.m1(a1); d1.m1(b1); d1.m1(c1);
}}

```

What is the result of attempting to compile and run the program?

- ☐ A.Prints: AAA
- ☒ B.Prints: ABC
- ☐ C.Prints: DDD
- ☐ D.Prints: ABCD
- ☐ E.Compile-time error
- ☐ F.Run-time error
- ☐ G.None of the above

5.0/ 5.0 Points

Question 20 of 20

```

class A {void m1(A a) {System.out.print("A");}}
class B extends A {void m1(B b) {System.out.print("B");}}
class C extends B {void m1(C c) {System.out.print("C");}}

```



```
class D {  
public static void main(String[] args) {  
A c1 = new C(); C c2 = new C(); c1.m1(c2);  
}}
```

What is the result of attempting to compile and run the program?

- ☒ A. Prints: A
- ☐ B. Prints: B
- ☐ C. Prints: C
- ☐ D. Compile-time error
- ☐ E. Run-time error
- ☐ F. None of the above