Started on	Thursday, 13 November 2025, 12:51 PM
State	Finished
Completed on	Thursday, 13 November 2025, 1:10 PM
Time taken	19 mins 22 secs
Marks	18.00/31.00
Grade	**58.06** out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

What is the result ?

```
Runnable r = new Runnable() {
    public void run() {
        System.out.print("cat");
    }
};
Thread t = new Thread(r) {
    public void run() {
        System.out.print("Dog");
    }
};
t.start();
```

- a. Dog
- b. Compilation fails
- c. No output
- d. Exception
- e. Cat

Question 2

Complete

Mark 1.00 out of 1.00

C++ default argument output?

```
#include < iostream.h >
void func(int a, bool flag = true) {
        if (flag == true) {
                cout << "flag is true  a = " << a;
        } else {
                cout << "flag is false a = " << a;
        }
}
int main() {
    func(200, false);
    return 0;
}
```

- a. flag false 200
- b. flag false 100
- c. flag true 100
- d. flag true

Question 3

Complete

Mark 0.00 out of 1.00

```
10. interface A { void x() ; }
11. class B implements A { public void x() { } public void y() { } }
12. class C extends B { public void x() { } }
And.
20. java.util.List<A> list = new java.util.ArrayList<A>();
21. list.add(new B());
22. list.add(new C());
23. for(A a : list) {
24.  a.x();
25.  a.y();
26. }
```

Calling a.y() in list of A?

- a. Compile fail line 23
- b. Compile fail line 25
- c. Compile fail line 20
- d. Compile fail line 21
- e. No output
- f. Runtime exception

Question 4

Complete

Mark 1.00 out of 1.00

```
1. class Eco {
2.  public static void main(String [] args )  {
3.       Eco e1=new Eco();
4.       Eco e2=new Eco();
5.       Eco e3=new Eco();
6.       e3.e = e2;
7.       e1.e = e3;
8.       e2 = null;
9.       e3 = null;
10.      e2. e = e1;
11.      e1 = null;
12.  }
13.  Eco e;
14. }
```

At what point is only a single object eligible for GC?

- a. After line 10
- b. After line 9
- c. After line 11
- d. After line 8
- e. Runtime exception
- f. Compilation fails

Question 5

Complete

Mark 1.00 out of 1.00

```
class Test {
    static String s = "-";
    public static void main(String[] args) {
        try {
            throw new Exception();
        } catch (Exception e) {
            try {
                try {
                    throw new Exception();
                } catch (Exception ex) {
                    s += "ic ";
                }
                throw new Exception();
            } catch (Exception x) {
                s += "mc ";
            } finally {
                s += "mf ";
            }
        } finally {
            s += "of ";
        }
        System.out.println(s);
    }
}
```

Nested try/catch output?

- a. -ic mf of
- b. -ic of
- c. -ic mc of mf
- d. -ic mc mf of
- e. -mf of
- f. -mc mf

Question 6

Complete

Mark 0.00 out of 1.00

```
class Test {
    public:
        int a;
    char b;
    virtual int add(int a, int b);
};
```

Size of class Test (virtual + int + char)?

- a. 8
- b. 13
- c. 9
- d. 5

Question 7

Complete

Mark 0.00 out of 1.00

```
1. class A {
2.    public void process() {
3.        System.out.print("A ");
4.     }
5. }
6. class B extends A {
7.  public void process() throws RuntimeException {
8.        super.process();
9.        if (true) throw new RuntimeException();
10.        System.out.print("B");
11.        public static void main(String[] args) {
12.            try {
13.                ((a) new B()).process();
14.            } catch (Exception e) {
15.                System.out.print("Exception ");
16.           }
17.        }
18.    }
19. }
```

What is the output?

- a. Compile fail line 13
- b. A Exception
- c. Compile fail line 9
- d. A B Exception
- e. A Exception B
- f. Exception

Question 8

Complete

Mark 1.00 out of 1.00

Application layer service:

- a. NVT
- b. All
- c. File transfer
- d. Mail

Question 9

Complete

Mark 0.00 out of 1.00

Baud rate means:

- a. None
- b. Bits per second
- c. Rate of signal change
- d. Bytes per second

Question 10

Complete

Mark 1.00 out of 1.00

Bluetooth is an example of:

- a. WAN
- b. LAN
- c. VPN
- d. PAN

Question 11

Complete

Mark 1.00 out of 1.00

Data encapsulation order:

- a. Data, segment, packet, frame, bit
- b. Data, segment, frame, packet, bit
- c. Segment, data, packet, frame, bit
- d. Data, frame, packet, segment, bit

Question 12

Complete

Mark 1.00 out of 1.00

Default mask for Class A:

- a. 255.255.255.255
- b. 255.0.0.0
- c. 255.255.0.0
- d. 255.255.255.0

Question 13

Complete

Mark 1.00 out of 1.00

Error detection at data link layer:

- a. Bit stuffing
- b. CRC
- c. Equalization
- d. Hamming

Question 14

Complete

Mark 1.00 out of 1.00

ICMP is used for:

- a. Addressing
- b. Forwarding
- c. None
- d. Diagnostics

Question 15

Complete

Mark 0.00 out of 1.00

Incorrect OSI pair:

- a. Data link – bit sync
- b. MAC – channel sharing
- c. Network – routing
- d. Transport – end-to-end

Question 16

Complete

Mark 1.00 out of 1.00

IP address to test local host?

- a. 1.0.0.127
- b. 127.0.0.0
- c. 255.255.255.0
- d. 127.0.0.1

Question 17

Complete

Mark 1.00 out of 1.00

IPv6 uses 16-byte addresses. If 1 million addresses allocated per picosecond, how long do addresses last?

- a. $(2^{16}/10^6)*10^{-12}$
- b. $(2^{128}/10^6)$
- c. $(2^{128}/10^6)*10^{-12}$
- d. None

Question 18

Complete

Mark 0.00 out of 1.00

Local address of IP is combination of:

- a. Network + Subnet
- b. Subnet + Host
- c. All
- d. Network + Host

Question 19

Complete

Mark 1.00 out of 1.00

MAC address size:

- a. 48 bits
- b. 42 bits
- c. 24 bits
- d. 36 bits

Question 20

Complete

Mark 0.00 out of 1.00

Subnet address of 200.10.5.68/28?

- a. 200.10.5.56
- b. 200.10.5.32
- c. 200.10.5.0
- d. 200.10.5.64

Question 21

Not answered

Marked out of 1.00

The correct statement for a function that takes pointer to a float, a pointer to a pointer to a char and returns a pointer to a pointer to a integer is: int (*fp)(char *)

- a. Pointer to array of chars
- b. Pointer to pointer
- c. Function returning pointer
- d. Pointer to function(char*)→int

Question 22

Complete

Mark 0.00 out of 1.00

The method of communication in which transmission takes place in which transmission both directions but one at a time:

- a. Full duplex
- b. Four-wire
- c. Half duplex
- d. Simplex

Question 23

Complete

Mark 1.00 out of 1.00

Transmission data rate is decided by:

- a. Physical layer
- b. Transport layer
- c. Network layer
- d. Data link layer

Question 24

Complete

Mark 1.00 out of 1.00

Transport layer protocols for real-time multimedia, file transfer, DNS, email:

- a. TCP, UDP, TCP, UDP
- b. UDP, TCP, UDP, TCP
- c. UDP, TCP, TCP, UDP
- d. TCP, UDP, UDP, TCP

Question 25

Not answered

Marked out of 1.00

Unmodulated signal is:

- a. None
- b. Baseband
- c. Carrier
- d. Primary

Question 26

Complete

Mark 1.00 out of 1.00

What is the size of a UDP header?

- a. 64
- b. 6
- c. 8
- d. 20

Question 27

Complete

Mark 1.00 out of 1.00

When host knows physical address but not IP, it uses:

- a. ICMP
- b. RARP
- c. ARP
- d. IGMP

Question 28

Complete

Mark 1.00 out of 1.00

Wireless transmission uses:

- a. Radio
- b. Microwave
- c. Infrared
- d. All

Question 29

Complete

Mark 0.00 out of 1.00

Which finalize() statements are true?

- [ ] a. finalize cannot be called explicitly
- [ ] b. finalize called max once
- [x] c. super.finalize() auto-called
- [ ] d. Order based on finalizable time
- [ ] e. Object.finalize does nothing

Question 30

Not answered

Marked out of 1.00

Which declarations compile with poll()?

- [ ] a. HashSet
- [ ] b. ArrayList
- [ ] c. Queue + PriorityQueue
- [ ] d. List + LinkedList
- [ ] e. TreeSet
- [ ] f. LinkedList

Question 31

Not answered

Marked out of 1.00

Which override gives output "b"?

```
import java.io.*;
class Master {
    String doFileStuff() throws FileNotFoundException {
        return "a";
    }
}
class Slave extends Master {
    public static void main(String[] args) {
        String s = null;
        try {
            s = new Slave().doFileStuff();
        } catch (Exception x) {
            s = "b";
        }
        System.out.println(s);
    }
}
```

- a. throws NumberFormatException, FileNotFoundException
- b. doFileStuff(int)
- c. throws IOException
- d. throws FileNotFoundException
- e. throws NumberFormatException
- f. doFileStuff(){return "b";}