Question 1

**Multiple Answer**

**Question:** What are the two parts of a value of type double?

**Answers:**
- ✓ significant digits
- ✗ length
- ✓ exponent
- ✗ mode
- ✗ numerator
- ✗ denominator

Question 2

**Multiple Choice**

**Question:** After the following code fragment, what is the value in a?

```java
String s;
int a;
s = "Foolish boy."
;  
a = s.indexOf("fool");
```

**Answers:**
- ✓ -1
- ✗ 0
- ✗ 4
- ✗ random value

Question 3

**Multiple Choice**

**Question:** What is an infinite loop?

**Answers:**
- ✗ A loop that functions infinitely well
A loop that runs forever
X A loop that never starts
X A loop that will never function

Question 4  Multiple Choice  Points  Modify  Remove

Question: If s = "text", what is the value returned by s.length()?

Answers: X false
 X true
 X 4
 ✓ 5

Question 5  Multiple Choice  Points  Modify  Remove

Question: What is the difference between a TextArea and a TextField?

Answers: ✓ A TextArea can handle multiple lines of text
 X A textarea can be used for output
 X TextArea is not a class
 X TextAreas are used for displaying graphics

Question 6  Multiple Choice  Points  Modify  Remove

Question: The sequence \n does what?

Answers: X Makes a link
 X Prints a backslash followed by a n
 X Adds 5 spaces
 ✓ Starts a new line

Question 7  Multiple Choice  Points  Modify  Remove

Question: What is the value of k after the following code fragment?

```java
int k = 0;
int n = 12
while (k < n) {
    k = k + 1;
}
```

Answers: X 0
 X 11
 X 12
 ✓ unknown

Question 8  Multiple Choice  Points  Modify  Remove

Question: What does the following line of code mean?

```java
double table[];
```

Answers: X table is a variable to refers to a real number
table is a variable that refers to two numbers
× It is not legal Java code
✓ table is a variable that refers to an array

**Question 9** Multiple Choice  Points

**Question:** Given the following code fragment:

```java
int A[];
int i = 0;
A = new int A[4];
while (i < 4)
{
    A[i] = 10;
    i = i + 1;
}
```

What is the value of A[3]?

**Answers:**

× 0
× 3
✓ 10
× unknown

**Question 10** Multiple Choice  Points

**Question:** Given the following statement:

```java
huey.setDouble(8.0*32.2+1.0);
```

What must be the data type of huey?

**Answers:**

✓ DoubleField
× TextField
× IntField
× double

**Question 11** Multiple Answer  Points

**Question:** Page 258 in the Course Pack has a set of rules for Java. Which rules must be applied to parse the following line?

```java
TextField m1, m2;
```

**Answers:**

✓ Rule #1
× Rule #2
× Rule #7
× Rule #8
× Rule #9
× Rule #10
× Rule #15
✓ Rule #16
✓ Rule #17
✓ Rule #18
× Rule #22
× Rule #23
Rule #24
Rule #24
Rule #26
Rule #27
Rule #28
Rule #30
Rule #31
Rule #32

Question 12  Multiple Choice  Points  Modify  Remove
Question: What is the purpose of this bit of code

```java
void init()
{
...
}
```

Answers: ❌ a class that initializes the applet
✔ A required method in an applet
❌ A place to declare variables
❌ Interacting with the user

Question 13  Multiple Choice  Points  Modify  Remove
Question: How would the TrafficLight program perform if the following line was omitted?

```java
b2.addActionListener(this);
```

Answers: ❌ It would not compile
❌ It would not run
❌ Pushing the button labelled "GREEN" would have no effect
✔ Pushing the button labelled "YELLOW" would have no effect

Correct Feedback: Correct
Incorrect Feedback: Incorrect

Question 14  Multiple Choice  Points  Modify  Remove
Question: A compound statement is:

Answers: ✔ A collection of one or more statements enclosed in braces
❌ A statement involving if and else
❌ A way of declaring variables
❌ a way of setting the value of a variable

Correct Feedback: Correct
Incorrect Feedback: Incorrect
**Question 15** Multiple Choice  [Modify] [Remove]

**Question:** The following is NOT an example of a data type.

**Answers:**
- ✗ int
- ✗ public
- ✗ Button
- ✗ void

**Correct Feedback:** Correct
**Incorrect Feedback:** Incorrect

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**Question 16** Multiple Choice  [Modify] [Remove]

**Question:** The following is an example of a bool-expression?

**Answers:**
- ✗ x = 6
- ✗ m1.setText("Hello.")
- ✗ cause == bYes
- ✗ 70

**Correct Feedback:** Correct
**Incorrect Feedback:** Incorrect

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**Question 17** Multiple Choice  [Modify] [Remove]

**Question:** The following a legal Java statement

**Answers:**
- ✗ m1 = new TextField("sixty");
- ✗ 1a = 6;
- ✗ add(m1);
- ✗ m1.setText("Hello world");

**Correct Feedback:** Correct
**Incorrect Feedback:** Incorrect

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**Question 18** Multiple Choice  [Modify] [Remove]

**Question:** If \( \text{result} = 2 + 3 \times 5 \), what is the value of result?

**Answers:**
- ✗ 25
- ✗ 14
- ✗ 10
- ✗ 17

**Correct Feedback:** Correct
**Incorrect Feedback:** Incorrect

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**Question 19** Multiple Choice  [Modify] [Remove]

**Question:** The data type for numbers such as 3.14159 is:

**Answers:**
- ✗ double
- ✗ float
- ✗ int
- ✗ long

**Correct Feedback:** Correct
**Incorrect Feedback:** Incorrect
Correct Feedback:  Correct
Incorrect Feedback: Incorrect

Question 20  Multiple Choice  Points  Modify  Remove
Question:  A function is:
Answers:  ✓ An entity that receives inputs and outputs
× A way of storing values
× A sequence of characters enclosed by quotes
× A kind of computer
Correct Feedback: Correct
Incorrect Feedback: Incorrect

Question 21  Multiple Choice  Points  Modify  Remove
Question:  Trying determine the shape of a cylindrical can made from 1000 cm² of tin that has the largest possible volume is an example of:
Answers:  × Array calculation
× Text manipulation
✓ Optimization problem
× Object oriented programming
Correct Feedback: Correct
Incorrect Feedback: Incorrect

Question 22  Multiple Choice  Points  Modify  Remove
Question:  The method setLabel can be used with what type of Object?
Answers:  ✓ DoubleField
× Int
× TextField
× String
Correct Feedback: Correct
Incorrect Feedback: Incorrect

Question 23  Multiple Choice  Points  Modify  Remove
Question:  What is the value stored in result after executing the following line in a program?

\[ \text{result} = 6/2*3; \]
Answers:  × 1.2
9
×1
×0