Which of the following is a correct difference between HashSet and TreeSet?

1. ○ None

2. ○ HashSet can contain duplicate elements whereas TreeSet contains only unique elements.

3. ○ HashSet maintains no order while TreeSet maintains ascending order.

4. ○ TreeSet maintains no order while HashSet maintains ascending order.

Correct

2. Question   **10 points**

Which of the following is not true for the IdentityHashMap?

1. ○ In IdentityHashMap, two keys k1 and k2 are considered equal if and only if (k1==k2).

2. ○ IdentityHashMap implements the Map interface with a hash table.

3. ○ IdentityHashMap is synchronized.

4. ○ IdentityHashMap is a class present in java.util package.

Incorrect

3. Question   **10 points**

Which of the following method you need to override for using an object as key in a HashMap?

1. ○ hashValue()

2. ○ None

3. ○ hashKey()

4. ○ hashCode()

Incorrect

4. Question   **10 points**

Which of the following is a valid difference between Set and Map?

1. ○ Set doesn't maintain any order whereas Map maintains ascending order.

2. ○ Set can contain duplicate elements whereas Map contains only unique elements.

3. ○ Set contains only values whereas Map contains key and values both.

4. ○ None

Incorrect

5. Question   **10 points**

Which of the following is a correct difference between ArrayList and LinkedList?

1. ○ ArrayList uses a dynamic array whereas the LinkedList uses doubly linked list.

2. ○ ArrayList uses a doubly linked list whereas the LinkedList uses dynamic array.

3. ○ None

4. ○ ArrayList uses a single linked list whereas the LinkedList uses dynamic array.

Incorrect

6. Question   **10 points**

Is it possible to define a Set as readOnly, if yes then how?

1. ○ None

2. ○ Yes, use Collections.readonlySet(Set s).

3. ○ Yes, use Collections.unmodifiableSet(Set s).

4. ○ No

Incorrect

7. Question   **10 points**

Which of the following is not true in case of a WeakHashMap?

1. ○ WeakHashMap is a Hash table based implementation of the Map interface with weak keys.

2. ○ An entry in WeakHashMap is automatically removed when it is no longer in use.

3. ○ WeakHashMap is a class present in java.util package.

4. ○ WeakHashMap doesn't allow null keys and null values.

Incorrect

8. Question   **10 points**

Which of the following is not true for a generic collection?

1. ○ None

2. ○ Generic collection is not mutable.

3. ○ Generic collection is typesafe and checked at compile time.

4. ○ Generic collection doesn't require typecasting.

Incorrect

9. Question   **10 points**

When would you choose to use ArrayList over LinkedList in an application?

1. ○ None

2. ○ ArrayList is preferred when there are frequent insertions or deletions required in the application.

3. ○ ArrayList is preferred when there is more demand for get via index operations.

4. ○ ArrayList is preferred when there is growing need of merging or sorting operations.

Incorrect

10. Question   **10 points**

Which of the following is not true for the UnsupportedOperationException?

1. ○ This exception implies that the requested operation is not supported.

2. ○ It occurs if you call add() or remove() method on the readOnly collection.

3. ○ It occurs if a method is not found in the underlying collection.

4. ○ None

Incorrect

11. Question   **10 points**

Which of the following is a correct difference between List and Set?

1. ○ None

2. ○ List can hold duplicate elements while Set includes only unique elements.

3. ○ List maintains no order whereas Set maintains ascending order.

4. ○ List contain only unique elements whereas Set can contain duplicate elements.

Incorrect

12. Question   **10 points**

Which of the following is a correct method to convert the array of strings into a list?

1. ○ Arrays class toList() method

2. ○ Arrays class asList() method

3. ○ None

4. ○ Arrays class doList() method

Incorrect

13. Question   **10 points**

Which of the following is a correct difference between the Iterator and ListIterator?

1. ○ None

2. ○ Iterator traverses the elements only in forward direction whereas the ListIterator traverses back and forth.

3. ○ Iterator traverses back and forth while the ListIterator traverses the elements in forward direction.

4. ○ Iterator traverses the elements in backward direction while the ListIterator moves in forward direction.

Incorrect

14. Question   **10 points**

Which of the following is a correct difference between ArrayList and Vector?

1. ○ ArrayList increases its size by doubling the array size while Vector increases by 50% of the array size.

2. ○ ArrayList is synchronized while Vector is not.

3. ○ None

4. ○ ArrayList is not a legacy class while Vector is the legacy.

Incorrect

15. Question   **10 points**

What do you understand of hash-collision in a Hashtable?

1. ○ If two same keys have the different hash value then it leads to hash-collision.

2. ○ If two same keys have the same hash value then it leads to hash-collision.

3. ○ If two different keys have the same hash value then it leads to hash-collision.

4. ○ None

Incorrect

16. Question   **10 points**

Which of the following class doesn't implement the Set interface?

1. ○ HashSet

2. ○ None of the above

3. ○ LinkedHashSet

4. ○ TreeSet

Incorrect

17. Question   **10 points**

What is the default value of load factor in a hashing based collection?

1. ○ 0.55

2. ○ 0.75

3. ○ 0.65

4. ○ 0.70

Incorrect

18. Question   **10 points**

When would you choose to use LinkedList over ArrayList in an application?

1. ○ LinkedList is preferred when application requires to perform frequent get or search operations.

2. ○ LinkedList is preferred when application requires to perform merging or sorting operations.

3. ○ None

4. ○ LinkedList is preferred when applications needs to support insertions or deletions of elements.

Incorrect

19. Question **10 points**

Which of the following is a correct difference between HashMap and ConcurrentHashMap?

1. ○ HashMap maintains the inserted elements in random order while ConcurrentHashMap maintains elements in the sorted order.

2. ○ HashMap is synchronized while ConcurrentHashMap is not synchronized.

3. ○ HashMap can have one null key and any number of null values whereas ConcurrentHashMap does not allow null keys and null values.

4. ○ None

Incorrect

20. Question **10 points**

Which of the following is not true for a fail-fast iterator?

1. ○ Fail fast system reports the failure right away but the system recovers after the failure.

2. ○ Fail fast iterator throws concurrent modification exception while iterating through the collection of objects.

3. ○ Fail fast immediately reports any failure and fail fast system fails whenever a problem occurs.

4. ○ None

Incorrect

21. Question **10 points**

Which of the following is a correct difference between HashMap and Hashtable?

1. ○ HashMap contains only values whereas Hashtable contains key and values both.

2. ○ long

3. ○ HashMap is not synchronized while the Hashtable is synchronized.

4. ○ HashMap can contain duplicate elements whereas the Hashtable contains only unique elements.

Incorrect

22. Question **10 points**

What is the design pattern followed by Iterator?

1. ○ Factory design pattern

2. ○ Observer design pattern

3. ○ None

4. ○ Iterator design pattern

Incorrect

23. Question   **10 points**

What is the correct difference between HashSet and HashMap?

1. ○ HashSet maintains no order whereas HashMap maintains ascending order.

2. ○ long

3. ○ HashSet can contain duplicate elements whereas HashMap contains only unique elements.

4. ○ HashSet contains only values whereas HashMap contains the key and value pair.

Incorrect

24. Question   **10 points**

What is the correct difference between HashMap and TreeMap?

1. ○ HashMap maintains no order but TreeMap maintains ascending order.

2. ○ HashMap can contain duplicate elements whereas TreeMap contains only unique elements.

3. ○ HashMap contains only values whereas TreeMap contains key and values both.

4. ○ None

Incorrect

25. Question   **10 points**

Which of the following is a correct difference between the Iterator and Enumeration?

1. ○ Iterator can traverse legacy and non-legacy containers whereas the Enumeration can traverse only legacy containers.

2. ○ Enumeration is fail-fast while Iterator is not fail-fast.

3. ○ Iterator is faster than Enumeration.

4. ○ None

Incorrect