1. Which of the following are interfaces in a collection framework.

A Set

B List

C Collection

D All the above

2 Which of the following methods is/are not found in Collection interface

A remove(Object o)

B iterator()

C get(int index)

D clear()

3 Comparator interface declares a method \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A compare(T o1,T o2)

B compare(T obj)

C both

D none

4 Which of the following methods of Queue interface retrieves but does not remove the head element.

A peek() -- returns null when q is empty

B element() -- throws NoSuchElementException when Q is empty

C both

D none

5 Which of these in Queue interface throws exception if queue is empty

A element()

B remove()

C peek()

D poll()

6 Retrieves and removes the head of this queue, or null if this queue is empty.

A remove()

B poll()

C offer()

D none

7 Which of the following implementation classes store key,value pairs.

A ArrayList

B Vector

C HashSet

D HashMap

8 Which of the following have synchronized methods.

1 HashSet 2 Vector 3 HashTable

A 1 & 2

B 1,2,3

C 2 & 3

D only 1

9 Which of the following classes implement Queue interface

A LinkedList B ArrayList C HashList D All

10 Which of these is correct to sort an array of Strings (mynames[])

A Arrays.sort(mynames);

B Collections(mynames);

C Both can be used

D A separate logic has to be written

11 Which of these support duplicate elements

A List

B Set

C HashMap

D HashSet

12 Which of the following interfaces does all Implementation classes of Collection Framework implement.

A Serializable

B Cloneable

C Comparable

D Comparator

13 Which collection class allows you to grow or shrink its size and provides indexed access to its

elements, but whose methods are not synchronized?

A. java.util.HashSet

B. java.util.LinkedHashSet

C. java.util.List

D. java.util.ArrayList

E. java.util.Vector

14 Which collection class allows you to access its elements by associating a key with an element’s

value, and provides synchronization?

A. java.util.SortedMap

B. java.util.TreeMap

C. java.util.TreeSet

D. java.util.HashMap

E. java.util.Hashtable

15 Given the following,

12. TreeSet map = new TreeSet();

13. map.add("one");

14. map.add("two");

15. map.add("three");

16. map.add("four");

17. map.add("one");

18. Iterator it = map.iterator();

19. while (it.hasNext() ) {

20. System.out.print( it.next() + " " );

21. }

what is the result?

A. one two three four

B. four three two one

C. four one three two

D. one two three four one

E. one four three two one

F. The print order is not guaranteed

16Which collection class allows you to associate its elements with key values, and allows you to

retrieve objects in FIFO (first-in, first-out) sequence?

A. java.util.ArrayList

B. java.util.LinkedHashMap

C. java.util.HashMap

D. java.util.TreeMap

E. java.util.LinkedHashSet

F. java.util.TreeSet

17 Stack class extends from \_\_\_\_\_\_\_\_\_\_\_ class

A AbstractList

B Vector

C ArrayList

D LinkedList

18

In The following code:

ArrayList al=**new** ArrayList();

Which of the following statements are true.

A Generates compiletime error in 1.5 java version

B Warns a type unsafe.

C It does not generate any warning or error in 1.4 version

D all the above

19 In the code:

ArrayList<**int**> al=**new** ArrayList<**int**>();

al.add(12);

System.out.println(12);

a) prints 12

b) compile time error

c) when <int> is removed compiles fine

d) b and c are right

20

ArrayList al=**new** ArrayList();

al.add(12);

al.add(4.5);

al.add("hello");

String o1=al.get(3); //line1

System.*out*.println(o1); //line2

1. Complains that dissimilar elements cannot be added
2. Compilation error in line1
3. Prints hello in line2
4. Gives IndexOutOfBoundsException

21

ArrayList<Integer> al=**new** ArrayList<Integer>();

al.add(12);

al.add(4.5);// compile error

what is the effect of the above code.

22

ArrayList<Number> al=**new** ArrayList<Number>();

al.add(12);

al.add(4.5);

al.add("hello"); //error

what is the effect of the above code.

23 ArrayList<Integer> al=**new** ArrayList<Integer>();

al.add(12);

al.add(34);

ArrayList<? **extends** Number> an=al; //line1

an.add(12); // line2

an.remove(0); //line 3

System.*out*.println(an);

A In the above code which line gives compiletime error.

B If the error line is removed what is the output? 34

24

ArrayList<Integer> al=**new** ArrayList<Integer>();

al.add(12);

al.add(34);

ArrayList<? **super** Integer> an=al;

an.add(12);

an.remove(0);

System.*out*.println(an); [34, 12]

What is the output of the above code.

25

A ArrayList<? **extends** Number> a1=**new** ArrayList<Integer>();

B ArrayList<? **extends** Number> a2=**new** ArrayList<Character>();

C ArrayList<? **extends** Object> a3=**new** ArrayList<Character>();

D ArrayList<? **super** Number> a4=**new** ArrayList<Object>();

E ArrayList<?> a5=**new** ArrayList<Character>();

Which of the above are valid declarations

26

Stack<Integer> s1=**new** Stack<Integer>();

s1.push(12);

s1.push(34);

s1.push(56);

System.*out*.println(s1); [12 34 56]

System.*out*.println(s1.peek()); [56]

System.*out*.println(s1); [12 34 56]

System.*out*.println(s1.pop()); 56

System.*out*.println(s1);. [12 34]

System.*out*.println(s1.search(56)); //-1

Write the output of the above code.

27

Which of the following statements regarding Hashtable are true?

A accepts duplicate keys

B accepts duplicate Values

C accepts null keys

D accepts null values.

28

Hashtable<Integer,String> ht=**new** Hashtable<Integer,String>();

ht.put(1,"abc");

ht.put(**null**,"2");

a What is the effect the above code.

B what happens when null is given as a value

29

Collection cref=**new** ArrayList();

cref.add("2");

cref.add(0,"5");

System.*out*.println(cref);

What happens in the above code;

30

Which of the following methods are not present in Set interface

A add()

B add(index,object);

C get(index)

D retainAll(…)

31

HashSet<String> hs=**new** HashSet<String>();

hs.add("ab");

hs.add("ba");

hs.add("ca");

// code

Complete the code to print the sorted order using Collections.sort

32

Which of the following ways cannot be used to print the elements of hashset.

A Single System.out.println(hashsetobject);

B for(int i=0;i<hs.size();i++) { }

C foreach loop

D using Iterator