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2	PG Mates / RoomSharing / Flat Mates	React+Springboot+MySql
3	Tour and Travel management System	React+Springboot+MySql
4	Election commition of India (online Voting System)	React+Springboot+MySql
5	HomeRental Booking System	React+Springboot+MySql
6	Event Management System	React+Springboot+MySql
7	Hotel Management System	React+Springboot+MySql
8	Agriculture web Project	React+Springboot+MySql
9	AirLine Reservation System / Flight booking System	React+Springboot+MySql
10	E-commerce web Project	React+Springboot+MySql
11	Hospital Management System	React+Springboot+MySql
12	E-RTO Driving licence portal	React+Springboot+MySql
13	Transpotation Services portal	React+Springboot+MySql
14	Courier Services Portal / Courier Management System	React+Springboot+MySql
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16	Muncipal Corporation Management	React+Springboot+MySql
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26	Marriage Hall Booking Project	React+Springboot+MySql
27	Online Student Management portal	React+Springboot+MySql
28	Resturant management System	React+Springboot+MySql
29	Solar Management Project	React+Springboot+MySql
30	OneStepService LinkLabourContractor	React+Springboot+MySql
31	Vehical Service Center Portal	React+Springboot+MySql
32	E-wallet Banking Project	React+Springboot+MySql
33	Blogg Application Project	React+Springboot+MySql
34	Car Parking booking Project	React+Springboot+MySql
35	OLA Cab Booking Portal	React+NextJs+Springboot+MySql
36	Society management Portal	React+Springboot+MySql
37	E-College Portal	React+Springboot+MySql
38	FoodWaste Management Donate System	React+Springboot+MySql
39	Sports Ground Booking	React+Springboot+MySql
40	BloodBank mangement System	React+Springboot+MySql

41	Bus Tickit Booking Project	React+Springboot+MySql
42	Fruite Delivery Project	React+Springboot+MySql
43	Woodworks Bed Shop	React+Springboot+MySql
44	Online Dairy Product sell Project	React+Springboot+MySql
45	Online E-Pharma medicine sell Project	React+Springboot+MySql
46	FarmerMarketplace Web Project	React+Springboot+MySql
47	Online Cloth Store Project	React+Springboot+MySql
48	Train Ticket Booking Project	React+Springboot+MySql
49	Quizz Application Project	JSP+Springboot+MySql
50	Hotel Room Booking Project	React+Springboot+MySql
51	Online Crime Reporting Portal Project	React+Springboot+MySql
52	Online Child Adoption Portal Project	React+Springboot+MySql
53	online Pizza Delivery System Project	React+Springboot+MySql
54	Online Social Complaint Portal Project	React+Springboot+MySql
55	Electric Vehical management system Project	React+Springboot+MySql
56	Online mess / Tiffin management System Project	React+Springboot+MySql
57		React+Springboot+MySql
58		React+Springboot+MySql
59		React+Springboot+MySql
60		React+Springboot+MySql

Spring Boot + React JS + MySQL Project List

Sr.No	Project Name	YouTube Link
1	Online E-Learning Hub Platform Project	https://youtu.be/KMjyBaWmgzg?si=YckHuNzs7eC84-IW
2	PG Mate / Room sharing/Flat sharing	https://youtu.be/4P9clHg3wvk?si=4uEsi0962CG6Xodp
3	Tour and Travel System Project Version 1.0	https://youtu.be/-UHOBywHaP8?si=KHHfE_A0uv725f12
4	Marriage Hall Booking	https://youtu.be/VXz0kZQi5to?si=ILOS-QG3TpAFP5k7
5	Ecommerce Shopping project	https://youtu.be/vJ_C6LkhrZ0?si=YhcBylSErvdn7paq
6	Bike Rental System Project	https://youtu.be/FlzsAmIBCbk?si=7ujQTJqEgkQ8ju2H
7	Multi-Restaurant management system	https://youtu.be/pvV-pM2Jf3s?si=PgvnT-yFc8ktrDxB
8	Hospital management system Project	https://youtu.be/lynlouBZvY4?si=CXzQs3BsRkjKhZCw
9	Municipal Corporation system Project	https://youtu.be/cVMx9NVyl4I?si=qX0oQt-GT-LR_5jF
10	Tour and Travel System Project version 2.0	https://youtu.be/_4u0mB9mHXE?si=gDiAhKBowi2gNUKZ

Sr.No	Project Name	YouTube Link
11	Tour and Travel System Project version 3.0	https://youtu.be/Dm7nOdpasWg?si=P_Lh2gcOFhlyudug
12	Gym Management system Project	https://youtu.be/J8_7Zrkg7ag?si=LcxV51ynfUB7OptX
13	Online Driving License system Project	https://youtu.be/3yRzsMs8TLE?si=JRI_z4FDx4Gmt7fn
14	Online Flight Booking system Project	https://youtu.be/m755rOwdk8U?si=HURvAY2VnizlyJlh
15	Employee management system project	https://youtu.be/ID1iE3W_GRw?si=Y_jv1xV_BljhrD0H
16	Online student school or college portal	https://youtu.be/4A25aEKfei0?si=RoVgZtxMk9TPdQvD
17	Online movie booking system project	https://youtu.be/Lfjv_U74SC4?si=fiDvrhhrjb4KSIsm
18	Online Pizza Delivery system project	https://youtu.be/Tp3izreZ458?si=8eWAOzA8SVdNwlyM
19	Online Crime Reporting system Project	https://youtu.be/0UlzReSk9tQ?si=6vN0e70TVY1GOwPO
20	Online Children Adoption Project	https://youtu.be/3T5HC2HKyT4?si=bntP78niYH802I7N

Collection Java - MCQ set 1 (25 questions, 55 marks)

Q1 - Q5, 5 EASY level difficulty questions 1 mark each. $1 * 5 = 5$ marks

1. Which of these is not a interface in the Collections Framework?

- a. ☐ Collection
- b. ☐ Group
- c. ☐ Set
- d. ☐ List

2. Which interface restricts duplicate elements?

- a. ☐ Set
- b. ☐ List
- c. ☐ Map
- d. ☐ (All of these)

3. Which of these collection class has the ability to grow dynamically?

- a. ☐ Array
- b. ☐ Arrays
- c. ☐ ArrayList
- d. ☐ (None of these)

4. The accuracy and efficiency of a HashMap can be guaranteed with:

- a. ☐ override equals method
- b. ☐ override hashCode method
- c. ☐ (None of these)
- d. ☐ (All of these)

5. A HashMap allows the existence of:

- a. ☐ null values
- b. ☐ one null key
- c. ☐ (None of these)
- d. ☐ (All of these)

Q6 - Q15, 10 MEDIUM level difficulty questions 2 mark each. $2 * 10 = 20$ marks

6. What implementation of Iterator can traverse a collection in both directions?

- a. ☐ Iterator
- b. ☐ ListIterator
- c. ☐ SetIterator
- d. ☐ MapIterator

7. The Comparable interface contains which called?

- a. ☐ toCompare
- b. ☐ compare
- c. ☐ compareTo
- d. ☐ compareWith

8. Which is faster and uses less memory?

- a. ☐ ListEnumeration
- b. ☐ Iterator
- c. ☐ Enumeration
- d. ☐ ListIterator

9. What Iterator can throw a ConcurrentModificationException?

- a. ☐ Fail-fast Iterators
- b. ☐ Fail-safe Iterators
- c. ☐ (All of these)
- d. ☐ (None of these)

10. What is the default number of Partitions/segments in Concurrent Hash Map?

- a. ☐ 12
- b. ☐ 32
- c. ☐ 4
- d. ☐ 16

11. Which is best suited to a multi-threaded environment?

- a. ☐ WeakHashMap
- b. ☐ Hashtable
- c. ☐ HashMap
- d. ☐ ConcurrentHashMap

12. The default capacity of a Vector is:

- a. ☐ 10
- b. ☐ 12
- c. ☐ 8
- d. ☐ 16

13. Which does NOT implement the Collection interface?

- a. ☐ List
- b. ☐ Map
- c. ☐ Set
- d. ☐ (None of these)

14. The default capacity of a ArrayList is:

- a. ☐ 12
- b. ☐ 16
- c. ☐ 1
- d. ☐ 10

15. Which provides better performance for the insertion and removal from the middle of the list?

- a. ☐ Vector
- b. ☐ ArrayList
- c. ☐ LinkedList
- d. ☐ (All of these)

Q16 - Q25, 10 HARD level difficulty questions 3 mark each. 3 * 10 = 30 marks

16. What will be output of given code -



- a. ☐ compile time exception
- b. ☐ 3 2 1
- c. ☐ 1 2 3
- d. ☐ 2 3 1

17. What will be output of given code -



- a. ☐ 1 2 3
- b. ☐ 1 followed by exception
- c. ☐ Compile time exception
- d. ☐ Runtime Exception - ClassCastException

18. What will be output of given code -



- a. ☐ a
followed by ConcurrentModificationException
- b. ☐ a b c
- c. ☐ a b
- d. ☐ a c

19. An unordered array has a search time complexity of:

- a. ☐ $O(\log n)$
- b. ☐ $O(n)$
- c. ☐ $O(n + 1)$
- d. ☐ $O(1)$

20. The add and remove methods of TreeSet have a time complexity of:

- a. ☐ $O(n)$
- b. ☐ $O(n + 1)$
- c. ☐ $O(1)$
- d. ☐ $O(\log n)$

21. After resizing, size of ArrayList is increased by :

- a. ☐ 200%
- b. ☐ 50%
- c. ☐ 100%
- d. ☐ (None of these)

22. After resizing, size of Vector is increased by:

- a. ☐ 200%
- b. ☐ 100%
- c. ☐ 50%
- d. ☐ (None of these)

23. What will be output of given code -



- a. ☐ will execute without any exception
- b. ☐ (None of these)
- c. ☐ compilation error
- d. ☐ Throw ConcurrentModificationException

24. Deque and Queue are derived from:

- a. ☐ AbstractList
- b. ☐ Collection
- c. ☐ AbstractCollection
- d. ☐ List

25. What will be output of given code -



- a. ☐ [name=ankit, name=brad]
- b. ☐ [name=brad, name=ankit]
- c. ☐ Runtime Exception
- d. ☐ compile time exception

Submit Quiz 1

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Quiz 1 - Correct answers

EASY

- 1) b
- 2) a
- 3) c
- 4) d
- 5) d

MEDIUM

- 6) b
- 7) c

- 8) c
- 9) a
- 10) d
- 11) d
- 12) a
- 13) b
- 14) d
- 15) c

HARD

- 16) b
- 17) d
- 18) a
- 19) b
- 20) d
- 21) b
- 22) b
- 23) d
- 24) b
- 25) a

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Collection Java - MCQ set 2 (25 questions, 55 marks)

Q1 - Q5, 5 EASY level difficulty questions 1 mark each. $1 * 5 = 5$ marks

1. What guarantees type-safety in a collection?

- a. ☐ Generics
- b. ☐ Abstract classes
- c. ☐ Interfaces
- d. ☐ Collection

2. HashSet internally uses?

- a. ☐ Set
- b. ☐ HashMap
- c. ☐ List
- d. ☐ Collection

3. The most used interfaces from the Collection framework are?

- a. ☐ List
- b. ☐ Map
- c. ☐ Set
- d. ☐ (All of these)

4. The root interface of Java Collection framework hierarchy is -

- a. ☐ Collection

- b. ☐ Root
- c. ☐ Collections
- d. ☐ List/Set

5. Which of these is synchronized?

- a. ☐ ArrayList
- b. ☐ LinkedList
- c. ☐ Vector
- d. ☐ (None of these)

Q6 - Q15, 10 MEDIUM level difficulty questions 2 mark each. $2 * 10 = 20$ marks

6. ArrayList implements which of the following?

- a. ☐ List
- b. ☐ RandomAccess
- c. ☐ Cloneable
- d. ☐ (All of these)

7. Which of these allows the storage of many null values?

- a. ☐ Set
- b. ☐ List
- c. ☐ (None of these)
- d. ☐ (All of these)

8. nextIndex() and previousIndex() are methods of which interface?

- a. ☐ IndexIterator
- b. ☐ Iterator
- c. ☐ ListIterator
- d. ☐ NextPreviousIterator

9. Vector extends which of these?

- a. ☐ ArrayList
- b. ☐ LinkedList
- c. ☐ AbstractList
- d. ☐ None

10. LinkedList implements?

- a. ☐ Deque
- b. ☐ List
- c. ☐ None
- d. ☐ All

11. In Iterator, nextElement() method of Enumeration has been changed to:

- a. ☐ next()
- b. ☐ getNext()
- c. ☐ returnNext()

d. ☐ name remains same

12. Enumeration returned by Vector is?

- a. ☐ fail-fast
- b. ☐ fail-safe
- c. ☐ none

13. From Java 5 onwards, which one of these is recommended to replace Hashtable?

- a. ☐ ConcurrentHashMap
- b. ☐ HashMap
- c. ☐ ConcurrentHashtable
- d. ☐ None

14. Which does not allow to store a null value?

- a. ☐ TreeSet
- b. ☐ LinkedHashSet
- c. ☐ HashSet
- d. ☐ None

15. Iterator returned by Vector is?

- a. ☐ fail-fast
- b. ☐ fail-safe
- c. ☐ none

Q16 - Q25, 10 HARD level difficulty questions 3 mark each. 3 * 10 = 30 marks

16. What describes how well an algorithm performs in best, average or worse case scenarios?

- a. ☐ Big-B
- b. ☐ Big-O
- c. ☐ Big-Data
- d. ☐ Big-N

17. An ordered array has a search time complexity of?

- a. ☐ $O(n)$
- b. ☐ $O(1)$
- c. ☐ $O(\log n)$
- d. ☐ $O(n-1)$

18. Which Map class must be preferred in multi-threading environment to maintain natural order of keys?

- a. ☐ ConcurrentHashMap
- b. ☐ ConcurrentSkipListMap
- c. ☐ ConcurrentMap
- d. ☐ all

19. What will be output of following code -



- a. ☐ [null, 1]
- b. ☐ [1]
- c. ☐ [null, 1, 1, null]
- d. ☐ Runtime Exception

20. What will be output of following code -



- a. ☐ {a=ferrari}
- b. ☐ {a=audi, a=ferrari}
- c. ☐ {a=audi}
- d. ☐ null

21. What will be output of following code -



- a. ☐ {a=ferrari}
- b. ☐ {a=audi, a=ferrari}
- c. ☐ Runtime Exception
- d. ☐ {a=audi}

22. TreeMap implements?

- a. ☐ Dictionary
- b. ☐ HashMap
- c. ☐ AbstractMap
- d. ☐ NavigableMap

23. Which list class must be preferred in multi-threading environment, considering performance constraint

- a. ☐ Vector
- b. ☐ CopyOnWriteArrayList
- c. ☐ ArrayList
- d. ☐ ConcurrentArrayList

24. Which Set class must be preferred in multi-threading environment, considering performance constraint

- a. ☐ HashSet
- b. ☐ ConcurrentSkipListSet
- c. ☐ LinkedHashSet
- d. ☐ CopyOnWriteArraySet

25. Which Map class must be preferred in multi-threading environment, considering performance constraint

- a. ☐ Hashtable
- b. ☐ CopyOnWriteMap
- c. ☐ ConcurrentHashMap
- d. ☐ ConcurrentMap

Quiz 2 - Correct answers

EASY

- 1) a
- 2) b
- 3) d
- 4) a
- 5) c

MEDIUM

- 6) d
- 7) b
- 8) c
- 9) c
- 10) d
- 11) a
- 12) b
- 13) a
- 14) a
- 15) a

HARD

- 16) b
- 17) c
- 18) b
- 19) c
- 20) a
- 21) b
- 22) d
- 23) b
- 24) b
- 25) c

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Collection Java - MCQ set 3 (25 questions, 55 marks)

Q1 - Q5, 5 EASY level difficulty questions 1 mark each. $1 * 5 = 5$ marks

1. Which allows the removal of elements from a collection?

- a. ☐ Enumeration
- b. ☐ Iterator
- c. ☐ Both
- d. ☐ None

2. The Comparator interface contains the method?

- a. ☐ compareTo()
- b. ☐ compareWith()

- c. ☐ compare()
- d. ☐

3. Which of these is synchronized?

- a. ☐ TreeMap
- b. ☐ HashMap
- c. ☐ Hashtable
- d. ☐ All

4. Which is more offers best performance?

- a. ☐ TreeMap
- b. ☐ HashMap
- c. ☐ LinkedHashMap
- d. ☐ All are equal

5. Which of these class should be preferred to be used as a key in a HashMap?

- a. ☐ String
- b. ☐ Integer
- c. ☐ Double
- d. ☐ Any of these

Q6 - Q15, 10 MEDIUM level difficulty questions 2 mark each. $2 * 10 = 20$ marks

6. What should we use when add and remove operations are more frequent than get operations?

- a. ☐ LinkedList
- b. ☐ ArrayList
- c. ☐ Vector
- d. ☐ All

7. Iterator returned by ArrayList is?

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

8. Iterator returned by LinkedList is?

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

9. Iterator returned by CopyOnWriteArrayList is ?

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

10. Iterator returned by HashMap on key, value and entry is?

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

11. Iterator returned by Hashtable on key, value and entry is?

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

12. Iterator returned by ConcurrentHashMap on key, value and entry is?

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

13. Iterator returned by LinkedHashMap on key, value and entry is?

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

14. Iterator returned by TreeMap on key, value and entry is?

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

15. Iterator returned by ConcurrentSkipListMap on key, value and entry is?

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

Q16 - Q25, 10 HARD level difficulty questions 3 mark each. 3 * 10 = 30 marks

16. Which Set implementation is sorted and synchronized?

- a. ☐ LinkedHashSet
- b. ☐ ConcurrentSkipListSet
- c. ☐ TreeSet
- d. ☐ CopyOnWriteArraySet

17. TreeMap -

- a. ☐ doesn't allow null key
- b. ☐ allow many null values
- c. ☐ All
- d. ☐ None

18. What will be output of following code -



- a. ☐ {11=a}
- b. ☐ {11=a, 12=b}
- c. ☐ UnsupportedOperationException
- d. ☐ Compile time exception

19. What will be output of following code -



- a. ☐ Runtime Exception
- b. ☐ Compile time exception
- c. ☐ {11=a, null=c}
- d. ☐ {11=a, null=null}

20. What will be output of following code -



- a. ☐ 3
null
- b. ☐ 2
null
- c. ☐ 1
null
- d. ☐ 0
null

21. What will be output of following code -



- a. ☐ 1
null
- b. ☐ 2
emp1 OVERRIDDEN
- c. ☐ 3
null
- d. ☐ 1
emp1 OVERRIDDEN

22. What will be output of following code -



- a. ☐ 1
emp1 OVERRIDDEN
- b. ☐ 2
emp1 OVERRIDDEN
- c. ☐ 1
null
- d. ☐ 3
null

23. What will be output of following code -



- a. ☐ 1
true
1
[1, 3, 4]
- b. ☐ 3
true
1
[1, 3, 4]
- c. ☐ 3
false
1
[1, 3, 4]
- d. ☐ 1
false
1
[1, 2, 4]

24. Which Map is synchronized?

- a. ☐ Hashtable
- b. ☐ ConcurrentSkipListMap
- c. ☐ ConcurrentHashMap
- d. ☐ All

25. concurrentSkipListMap allows

- a. ☐ one null key
- b. ☐ many null values
- c. ☐ all
- d. ☐ none

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Quiz 3 - Correct answers

EASY

- 1) b
2) c
3) c
4) b
5) d

MEDIUM

- 6) a
7) a
8) a
9) b
10) a
11) a

- 12) b
- 13) a
- 14) a
- 15) b

HARD

- 16) b
- 17) c
- 18) b
- 19) a
- 20) a
- 21) c
- 22) d
- 23) a
- 24) d
- 25) d

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Collection Java - MCQ set 4 (25 questions, 55 marks)

Q1 - Q5, 5 EASY level difficulty questions 1 mark each. $1 * 5 = 5$ marks

1. What should we use get operations are more?

- a. ☐ ArrayList
- b. ☐ LinkedList
- c. ☐ Any

2. Complexity of ArrayList get method

- a. ☐ $O(n-1)$
- b. ☐ $O(n)$
- c. ☐ $O(1)$
- d. ☐ $O(2n)$

3. Which is sorted by natural order?

- a. ☐ LinkedHashSet
- b. ☐ TreeSet
- c. ☐ HashSet
- d. ☐ None

4. Which of these maintains insertion order?

- a. ☐ List
- b. ☐ Set
- c. ☐ All
- d. ☐ None

5. Which maintains insertion order?

- a. ☐ TreeSet
- b. ☐ HashSet
- c. ☐ LinkedHashMap
- d. ☐ None

Q6 - Q15, 10 MEDIUM level difficulty questions 2 mark each. $2 * 10 = 20$ marks

6. In Iterator, hasMoreElements() method of Enumeration has been changed to:

- a. ☐ hasNextElement()
- b. ☐ isNext()
- c. ☐ hasNext()
- d. ☐ name remains same

7. TreeSet internally uses which one to store elements?

- a. ☐ HashMap
- b. ☐ LinkedHashMap
- c. ☐ TreeMap
- d. ☐ None

8. HashSet internally uses?

- a. ☐ HashMap
- b. ☐ LinkedHashMap
- c. ☐ TreeMap
- d. ☐ None

9. An attempt to add null key to a TreeSet will result in:

- a. ☐ Will compile
- b. ☐ Compile time Exception
- c. ☐ Error
- d. ☐ Runtime - NullPointerException

10. What is initial capacity of LinkedList?

- a. ☐ 8
- b. ☐ 10
- c. ☐ 16
- d. ☐ 10

11. Enumeration returned by ArrayList is

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

12. LinkedHashMap allows

- a. ☐ one null key
- b. ☐ many null values

- c. ☐ none
- d. ☐ all

13. Hashtable allows

- a. ☐ one null key
- b. ☐ many null values
- c. ☐ none
- d. ☐ all

14. How can you sort given HashMap on basis of values

- a. ☐ Implement Comparator interface and override its compare method
- b. ☐ It's not possible
- c. ☐ Implement Comparator interface and override its compareTo method
- d. ☐ Implement Comparator and Comparable interface

15. What will be output of following code -



- a. ☐ 1
null
- b. ☐ 2
emp1 OVERRIDDEN
- c. ☐ 2
null
- d. ☐ 1
emp1 OVERRIDDEN

Q16 - Q25, 10 HARD level difficulty questions 3 mark each. 3 * 10 = 30 marks

16. What does Collections.sort internally uses when number of elements are less than 7?

- a. ☐ Insertion sort
- b. ☐ Merge sort
- c. ☐ Quick sort
- d. ☐ None

17. What does Collections.sort internally uses when number of elements are greater than 7?

- a. ☐ Insertion sort
- b. ☐ Merge sort
- c. ☐ Quick sort
- d. ☐ None

18. An attempt to add null key to a TreeMap will result in:

- a. ☐ Compile time Exception
- b. ☐ Error
- c. ☐ Runtime - NullPointerException
- d. ☐ None

19. What will be output of following code -



- a. ☐ Compile time exception
- b. ☐ 1
 {null=null}
- c. ☐ 2
 {11=BMW, null=fer}
- d. ☐ Runtime Exception

20. Which of these is synchronized and doesn't allow null elements?

- a. ☐ Vector
- b. ☐ CopyOnWriteArraySet
- c. ☐ CopyOnWriteArrayList
- d. ☐ ConcurrentSkipListSet

21. Which of these is synchronized and isn't sorted by natural order?

- a. ☐ EnumSet
- b. ☐ LinkedList
- c. ☐ ConcurrentSkipListSet
- d. ☐ Vector

22. What will be output of following code -



- a. ☐ 11 followed by ConcurrentModificationException
- b. ☐ 11
- c. ☐ ConcurrentModificationException
- d. ☐ Compile time exception

23. What will be output of following code -



- a. ☐ ind followed by NullPointerException
- b. ☐ ind followed by ConcurrentModificationException
- c. ☐ ind usa null
- d. ☐ ind usa followed by NullPointerException

24. What will be output of following code -



- a. ☐ daysEnumMap.get(Days.Monday) : Day1
 daysEnumMap.containsKey(Days.Monday) : true
- b. ☐ daysEnumMap.get(Days.Monday) : Day1
 daysEnumMap.containsKey(Days.Monday) : false
- c. ☐ Runtime Exception
- d. ☐ Compile time exception

25. In ListIterator, after a call to next() or previous(), if a call is made to set(E element) followed by add() or remove() what happens?

- a. ☐ compilation error
- b. ☐ UnsupportedOperationException
- c. ☐ ConcurrentModificationException
- d. ☐ none

Submit Quiz 4

Quiz 4 - Correct answers

EASY

- 1) a
- 2) c
- 3) b
- 4) a
- 5) c

MEDIUM

- 6) c
- 7) c
- 8) a
- 9) d
- 10) b
- 11) a
- 12) d
- 13) c
- 14) a
- 15) b

HARD

- 16) a
- 17) b
- 18) c
- 19) c
- 20) d
- 21) d
- 22) b
- 23) c
- 24) d
- 25) b

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Collection Java - MCQ set 5 (25 questions, 55 marks)

Q1 - Q5, 5 EASY level difficulty questions 1 mark each. $1 * 5 = 5$ marks

1. Which interface must be implemented for sorting on basis many criterias

- a. ☐ Comparator
- b. ☐ Comparable
- c. ☐ Serializable
- d. ☐ None

2. Can 2 threads on same ConcurrentHashMap object access it concurrently

- a. ☐ we need to add additional functionality to achieve the same.
- b. ☐ Its not possible
- c. ☐ different threads can access different segments concurrently.

3. What will be output of following code -



- a. ☐ List l=new ArrayList();
- b. ☐ List l=new ArrayList();
- c. ☐ List l=new ArrayList();
- d. ☐ List l=new ArrayList();

4. Which of these provides a get(in index) method?

- a. ☐ Map
- b. ☐ Set
- c. ☐ List
- d. ☐ All

5. LinkedHashSet implements:

- a. ☐ Set
- b. ☐ Cloneable
- c. ☐ Serializable
- d. ☐ All

Q6 - Q15, 10 MEDIUM level difficulty questions 2 mark each. $2 * 10 = 20$ marks

6. What will be output of following code -



- a. ☐ a
b
c
followed by Exception
- b. ☐ Runtime Exception
- c. ☐ Compile time exception
- d. ☐ a
b

7. In WeakHashMap

- a. ☐ An entry are automatically removed by garbage collector

- b. ☐ Behaves normally like HashMap
- c. ☐ An entry are never removed by garbage collector
- d. ☐ None

8. A EnumSet

- a. ☐ Can use enum and non enum type keys
- b. ☐ Cannot use enum type keys
- c. ☐ is specialized Set implementation for use with enum type keys only
- d. ☐ None

9. Iterator returned by HashSet is

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

10. Iterator returned by CopyOnWriteArraySet is

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

11. Iterator returned by TreeSet is

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

12. Iterator returned by LinkedHashSet is

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

13. Iterator returned by ConcurrentSkipListSet is

- a. ☐ Fail-fast
- b. ☐ Fail-safe
- c. ☐ none

14. Which List is synchronized?

- a. ☐ Vector
- b. ☐ CopyOnWriteArrayList
- c. ☐ All
- d. ☐ none

15. Which Set is synchronized?

- a. ☐ CopyOnWriteArraySet
- b. ☐ ConcurrentSkipListSet
- c. ☐ All
- d. ☐ none

Q16 - Q25, 10 HARD level difficulty questions 3 mark each. 3 * 10 = 30 marks

16. What will be output of following code -



- a. ☐ a
 b
 a
 b
- b. ☐ a
 b
- c. ☐ will print a infinite times
- d. ☐ a

17. What is significance of using instanceof operator and getClass() in equals method

- a. ☐ instanceof will return true for comparing current class with its subclass as well
- b. ☐ getClass() will return true only if exactly same class is compared
- c. ☐ getClass() will return false when compared with subclass
- d. ☐ All

18. What will be output of following code -



- a. ☐ 11 44
- b. ☐ Runtime Exception
- c. ☐ Compile time exception
- d. ☐ 44 11

19. What will be output of following code -



- a. ☐ 0
 null
- b. ☐ 1
 null
- c. ☐ 2
 null
- d. ☐ 3
 null

20. What will be output of following code -



- a. ☐ Compile time exception
- b. ☐ a b c d e 1
- c. ☐ a b c d e 2
- d. ☐ e d c b a -1

21. What will be output of following code -



- a. ☐ 5
is WeekDay
is weekEnd
true
0
- b. ☐ 2
is WeekDay
is weekEnd
true
0
- c. ☐ 2
is WeekEnd
is weekDay
true
0
- d. ☐ Compile time exception

22. What will be output of following code -



- a. ☐ [1, 1, 2, 3]
- b. ☐ [1, 2, 2, 3]
- c. ☐ [1, 1, 3, 2]
- d. ☐ [1, 2, 3]

23. What will be output of following code -



- a. ☐ [{name=amy, id=2}, {name=sam, id=4}]
- b. ☐ Runtime Exception
- c. ☐ compile time exception
- d. ☐ [{name=sam, id=4}, {name=amy, id=2}]

24. What will be output of following code -



- a. ☐ [2, 3]
- b. ☐ Runtime Exception
- c. ☐ compile time exception
- d. ☐ None

25. What will be output of following code -



- a. ☐ 3
- b. ☐ 3.0
- c. ☐ compile time exception

d. ☐ runtime exception

Submit Quiz 5

Quiz 5 - Correct answers

EASY

- 1) a
- 2) c
- 3) d
- 4) c
- 5) d

MEDIUM

- 6) d
- 7) a
- 8) c
- 9) a
- 10) b
- 11) a
- 12) a
- 13) b
- 14) c
- 15) c

HARD

- 16) c
- 17) d
- 18) b
- 19) d
- 20) d
- 21) a
- 22) c
- 23) d
- 24) c
- 25) c

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Collection Java - MCQ set 6 (25 questions, 55 marks)

Q1 - Q5, 5 EASY level difficulty questions 1 mark each. $1 * 5 = 5$ marks

1. Which of these does NOT have an index based structure?

- a. ☐ List
- b. ☐ Set
- c. ☐ Map

d. ☐

2. java.util.Collections is a:

- a. ☐ class
- b. ☐ interface
- c. ☐ object
- d. ☐ none

3. Methods such as reverse, shuffle and sort are available in:

- a. ☐ Object
- b. ☐ Collection
- c. ☐ Collections
- d. ☐ Apache Commons Collections

4. Which of these allows duplicate elements?

- a. ☐ Set
- b. ☐ List
- c. ☐ All
- d. ☐ None

5. Which allows the storage of a null key and many null values?

- a. ☐ Hashtable
- b. ☐ HashMap
- c. ☐ Both
- d. ☐ None

Q6 - Q15, 10 MEDIUM level difficulty questions 2 mark each. $2 * 10 = 20$ marks

6. What will be output of following code -



- a. ☐ 1
 {null=null}
- b. ☐ 2
 {null=null, 11=a}
- c. ☐ Runtime Exception
- d. ☐ Compile time exception

7. What will be output of following code -



- a. ☐ 1
 2
- b. ☐ 1
 2
 3
- c. ☐ 3
 2

d. ☐ ConcurrentModificationException

8. What will be output of following code -



- a. ☐ List l=new ArrayList>();
- b. ☐ List> l=new ArrayList>();
- c. ☐ List l=new ArrayList();
- d. ☐ List> l=new ArrayList>();

9. What will be output of following code -



- a. ☐ [a, d, b, c]
- b. ☐ [a, b, c, d]
- c. ☐ [d, a, d, c]
- d. ☐ none

10. What will be output of following code -



- a. ☐ 1
- b. ☐ 2
- c. ☐ 0
- d. ☐ 4

11. What will be output of following code -



- a. ☐ {11=audi, null=null}
- b. ☐ {null=null}
- c. ☐ {11=bmw, null=fer}
- d. ☐ Runtime Exception

12. What will be output of following code -



- a. ☐ []
- b. ☐ [{name=sam, id=4}, {name=amy, id=2}]
- c. ☐ [{name=amy, id=2}, {name=sam, id=4}]
- d. ☐ [null]

13. What will be output of following code -



- a. ☐ 1 2 1.1 2.2
- b. ☐ Runtime Exception
- c. ☐ compile time exception

d. ☐ None

14. What will be output of following code -



- a. ☐ 5.0
- b. ☐ 5
- c. ☐ Runtime Exception
- d. ☐ compile time exception

15. What will be output of following code -



- a. ☐ 3
null
- b. ☐ 1
emp1 OVERRIDDEN
- c. ☐ 2
emp1 OVERRIDDEN
- d. ☐ 3
emp1 OVERRIDDEN

Q16 - Q25, 10 HARD level difficulty questions 3 mark each. 3 * 10 = 30 marks

16. What will be output of following code -



- a. ☐ [3, 2, 1]
- b. ☐ compile time exception
- c. ☐ Runtime Exception
- d. ☐ [1, 2, 3]

17. What will be output of following code -



- a. ☐ [1, 2, 3]
- b. ☐ Runtime Exception - classCastException
- c. ☐ [3, 2, 1]
- d. ☐ None

18. What will be output of following code -



- a. ☐ [3, 2, 1]
- b. ☐ Runtime Exception - NullPointerException
- c. ☐ [1, 2, 3]
- d. ☐ Runtime Exception - classCastException

19. What will be output of following code -



- a. ☐ {4=1, 3=1, 2=1}
- b. ☐ {2=1, 3=1, 4=1}
- c. ☐ {4=1, 2=1, 3=1}
- d. ☐ compile time exception

20. What will be output of following code -



- a. ☐ Runtime Exception
- b. ☐ 412
- c. ☐ 124
- d. ☐ 421

21. What will be output of following code -



- a. ☐ 542
- b. ☐ 245
- c. ☐ 425
- d. ☐ None

22. What will be output of following code -



- a. ☐ Runtime Exception - NullPointerException
- b. ☐ Runtime Exception - IndexOutOfBoundsException
- c. ☐ compile time error
- d. ☐ 23

23. What will be output of following code -



- a. ☐ IndexOutOfBoundsException
- b. ☐ 23
- c. ☐ compile time error
- d. ☐ NullPointerException

24. In ConcurrentHashMap - When thread locks one segment for updation it does not block it for retrieval hence some other thread can read the same segment, but it will be able to read the data before locking?

- a. ☐ true
- b. ☐ false
- c. ☐ may be true/false

25. In ConcurrentHashMap - When thread locks one segment for updation it does not allow any other thread to perform updations in same segment until lock is not released on segment

- a. ☐ true
- b. ☐ false
- c. ☐ may be true/false

Submit Quiz 6

Quiz 6 - Correct answers

EASY

- 1) b
- 2) a
- 3) c
- 4) b
- 5) b

MEDIUM

- 6) b
- 7) d
- 8) d
- 9) a
- 10) b
- 11) d
- 12) c
- 13) a
- 14) a
- 15) b

HARD

- 16) b
- 17) a
- 18) b
- 19) a
- 20) b
- 21) a
- 22) d
- 23) c
- 24) a
- 25) a

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