

University of Mumbai Examination First half 2022

Program: MCA

Curriculum Scheme: MCA 2 years course (R-2020-21)

Examination: M.C.A Semester I

Course Code: MCA12 and Course Name: Advanced Java

Time: 3 hour

Max. Marks: 80

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Note:- All the Questions are compulsory and carry equal marks .

Q.1 Each MCQ question carries 2 marks,

1	Which method is used to delete all the elements from the List?
Option A:	drop()
Option B:	pop()
Option C:	remove()
Option D:	clear()
2.	Which of the following class can be used to execute Sql queries in spring?
Option A:	JDBCHelper
Option B:	JdbcTemplate
Option C:	DBHelper
Option D:	DBTemplate
3.	Which of the following interface restricts duplicate elements?
Option A:	Set
Option B:	List
Option C:	Map
Option D:	Queue
4.	Which of the following is not a JSP directive?
Option A:	Include
Option B:	Page
Option C:	Scriptlet
Option D:	Taglib
5.	What is use of wildcards?
Option A:	It is used in cases when type being operated upon is not known
Option B:	It is used to make code more readable
Option C:	It is used to access members of super class
Option D:	It is used for type argument of generic method
6.	Which of these object stores association between keys and values?
Option A:	Hash table

Option B:	Map
Option C:	Array
Option D:	String
7.	Which method is used to return the highest priority of aspect's joinpoint?
Option A:	getHighestPriority
Option B:	getOrder
Option C:	getHighOrder
Option D:	getPriority
8.	Which of the following advice is executed once a joint point finishes?
Option A:	@Before
Option B:	@After
Option C:	@AfterReturning
Option D:	@AfterThrowing
9.	Which option is true about session scope?
Option A:	Objects are accessible only from the page in which they are created
Option B:	Objects are accessible only from the pages which are in same session
Option C:	Objects are accessible only from the pages which are processing the same request
Option D:	Objects are accessible only from the pages which reside in same application
10.	Which class is used to map a database row to a java object in spring?
Option A:	ResultSet
Option B:	RowMapper
Option C:	RowSetMapper
Option D:	ResultSetMapper

Q.2	Solve any Two Questions out of Three	(10 marks each)
A	Explain all standard action in JSP and write JSP code using this standard action for Login Page.	
B	Explain the Wildcards with its syntax and program example on List and Set.	
C	Explain Aspect Oriented Programming with types of advices in detail	
Q.3	Solve any Two Questions out of Three	(10 marks each)
A	Explain spring AOP in details.	
B	Explain Java Lambda Expressions with suitable examples.	
C	What is Bean Autowiring and its types of mode.	

Q.4	Solve any Two Questions out of Three (10 marks each)
A	Explain session management in JSP with its types. Write variable value counter program using cookies.
B	What is Collections? Explain Set, Map, HashMap, List and Vector each classes with suitable code compulsorily..
C	Explain Data Access operations with JdbcTemplate and Spring.