Dr. MPS Memorial College of Business Studies

Question Bank

BCA IV

JAVA

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1) Explain History and Evolution of Java?

2) Demonstrate what are Jump statements? Give an example for each of them.

3) What is Byte Code? Interpret the different states of Java Program execution.

4) Write a Java program to use Bit-wise operators.

5) What are the different components of JDK? Explain. Also describe the concept of JRE.

6) Explain the concepts JDK, JRE and JVM.

7) What is the purpose of the System class? Also explain the wrapper class in detail.

8) What classes of exceptions may be thrown by a throw statement?

9) Explain all Checked & Unchecked Exceptions.

10) What is interface & when do we use it?

11) List the Java Tokens and discuss in detail.

12) What is an Operator? Explain type of operators in Java with example programs.

13) Define Class, Method and Object? Show the syntax to define these in java.

14) What is a Constructor? Explain types of Constructors in Java? Write a java program to find the Area of Circle using Constructor.

15) Discuss about the static, final keywords with an example.

16) Recall Inheritance? Illustrate the types of inheritances.

17) Discuss about the super keyword in java with example.

18) Compare Method Overriding and Method Overloading.

19) What is an abstract class? Explain all the cases to implement abstract Class.

20) Give the differences between Abstract class and Interface

21) Discuss in detail about Abstract Classes in Java.

22) Recall what is package? Explain how to create user defined package in java with example.

23) Write a java program to find the factorial value of the given number using user defined package concept.

24) What is a Java Exception and its types?

25) Explain about try, catch, statements with examples.

26) Demonstrate Nested try statements with an example.

27) List Java's Built-in Exception? Write the importance of finally block.

28) Explain Exception handling fundamentals.

29) Explain Java exception hierarchy.

30) Give the difference between checked and unchecked exceptions?

31) Show the use of finally statements with examples.

32) What is Multithreading? What are the ways to create multiple threads in java?

33) Explain about Thread Life Cycle.

34) Discuss how to set the priority to threads? What are the different ranges?

35) Write a java program to create two threads and execute simultaneously.

36) What is synchronization? Give its types and explain.

37) Write a java program to implement inter thread communication.

38) Define String? Explain different String declarations with an example.

39) Write a java program to check the given string is palindrome or not.

40) Write the difference between String and StringBuffer classes.

41) List and explain any five string methods.

42) Explain in detail about thread methods?

43) Write short notes on the following

       a) **this** & **super** keyword

       b) **final** & **static** keyword

       c) **nested** & **inner** classes & their uses.

       d) **class** & **object** .

44) Which of the following methods are defined in the Object class? Also give an example of the selected method.

       a) toString( )

       b) equals(Object o)

       c) wait( )

       d) all of the above

45) What is the purpose of the **wait(), notify(),** and **notifyAll()** methods?

46) What is mean by multi-threading? What are the 2 ways of creating a thread ? Which is the best way and why?

47) What do you understand by the term Applet? What is the life cycle of applet in java? Define the atleats ten methods of applet class with suitable examples.