BCS306A SIMP Questions -22SCHEME

BY TIE REVIEW TEAM

Module-1 to 5 SIMP

- 1. Explain the three object oriented programming principles
- 2. Describe the meaning of each of the keywords in "public static void main" and write an example program.
- 3. Explain different lexical issues in JAVA.
- 4. Write short notes on 4M*5Q
 - (i)Primitive data types
 - (ii)different types of arrays with simple program
 - (iii) different promotion rules in JAVA
 - (iv)Type Inference with Local Variables
 - (v) Int() to Float() Type conversion and casting
- 5. Explain the various selection and iteration statements in Java with syntax and a programming example
- 6. Explain all the Jump statements in Java with Syntax and Programming Example
- 7. What are constructors? Explain two types of constructors with examples.
- 8. Explain static variables and static methods in JAVA.
- 9. Explain memory allocation and use of garbage collector in JAVA
- 10. Explain
 - (i)Nested and inner classes
 - (ii)call by value and call by reference with an example program.
- 11. Distinguish between method overloading and method overriding.
- 12. How do you overload a constructor? Explain with a program.
- 13. Define recursion. Write a recursive program to find nth Fibonacci number.
- 14. What are various access specifiers in Java? List out the behavior of each of them.
- 15. What is single and multilevel inheritance? Explain with suitable example, Explain the use of Interface in MLI in Java
- 16. What is meant by interface? State its need and write syntax and features of interface.
- 17. Explain inheritance and polymorphism features of Java and write a single program to implement inheritance and polymorphism in java.
- 18. Explain method overriding with suitable examples.
- 19. What is the importance of super keywords in inheritance? Illustrate a suitable example.
- 20. Explain the concept of nesting of interfaces.

- 21. What is abstract class and abstract method? Explain with example
- 22. What are Packages? How do we create them? What are the ways to access packages from another package? Explain with examples.
- 23. Write short notes on (i) import a package (ii)access protection in Java.
- 24. Define an exception. What are the key terms used in exception handling? Explain.
- 25. Write a program which contains one method which will throw an Illegal Access Exception and use proper exception handles so that exceptions should be printed.
- 26. Write a note on: Java's built-in exception and Uncaught Exceptions
- 27. How do you create your own exception class? Explain with a program.

28. Define 4 to 5M each

- (i)Enumerations.
- (ii) values() and value Of() methods
- (iii)ordinal() and compare To()
- (iv) wrapper classes
- (v) auto boxing /unboxing
- 29. What is multithreading? Write a program to create multiple threads in JAVA
- 30. What do you mean by thread? Explain the different ways of creating threads.
- 31. What is the need of synchronization? Explain with an example how synchronization is implemented in JAVA.
- 32. What is meant by thread priority? How to assign and get the thread priority?
- 33. Explain how to achieve suspending, resuming and stopping threads with an example program.

Note: Please do make sure to practice programs