
 <b>SURESH GYAN VIHAR UNIVERSITY</b> <small>Accredited by NAAC with 'A' Grade</small>		<b>INTERNAL ASSIGNMENT - 1</b>
<b>Course</b>	<b>MCA</b>	<b>Java Programming</b>
<b>Semester</b>	<b>4</b>	
<b>Total Marks:</b>	<b>15</b>	

**Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)**

- A. What is meant by re-throwing exception? Discuss a suitable scenario for this.
- B. Write a java program to find the factorial of a given number.
- C. What is JVM? Explain the working of JVM.

**Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)**

- A. Any four unchecked exception.
- B. Why java is not 100% object-oriented language?
- C. Applets with application programs.
- D. The hash table constructors.
- E. JVM

 <b>SURESH GYAN VIHAR UNIVERSITY</b> <small>Accredited by NAAC with 'A' Grade</small>		<b>INTERNAL ASSIGNMENT - 2</b>
<b>Course</b>	<b>MCA</b>	<b>Java Programming</b>
<b>Semester</b>	<b>4</b>	
<b>Total Marks:</b>	<b>15</b>	

**Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)**

- A. Describe the need of thread synchronization. How is it achieved in Java programming? Explain with a suitable program.
- B. With a suitable Java program explain user-defined exception handling.
- C. With a program illustrate user defined exception handling. How to handle multiple catch blocks for a nested try block? Explain with an example.

**Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)**

- A. What is an adapter class? What is its significance? List the adapter classes.
- B. What is the use of Iterator class?
- C. The hierarchy for swing components.
- D. How does Java support inter thread communication?
- E. What is the need of JDBC type 3, type 4 drivers?