

\* What is an exception?

=> Exception is a mechanism which is used for handling unusual situation that may occur in the program.

Example — Arithmetic exception

\* Various state of Thread

=> Various stages of Thread are:

i) New state, ii) Runnable state

iii) Waiting state iv) Timewaiting state

v) Blocked state vi) Terminated stage.

\* What is multithreading

i) Multithreading is an environment in which multiple threads are created and they can execute simultaneously.

ii) The multiple threads can be created either by extending the thread class or by implementing the Runnable interface.

### \* Define Runtime exception?

i) Runtime exception is the superclass of those exceptions that can be thrown during the normal operation of the Java Virtual machine

ii) Runtime exception is the parent class in all exceptions of the Java

### \* What is assert keyword?

i) The assert keyword is used for testing.

ii) It can be used for assumption about the program.

iii) While executing the assertion it is assumed to be true.

### \* What is exception handling

i) Exception handling is mechanism in which in which the statements that are likely to cause an exception are enclosed within try block.

ii) As soon as exception occurs it is handled using catch block.