

# **Emergency Core Cooling System**

**K.S. Rajan**

**Professor, School of Chemical & Biotechnology**

**SASTRA University**

## Table of Contents

<b>1 QUIZ</b> .....	<b>3</b>
1.1 QUESTIONS.....	3
1.2 ANSWERS.....	3

## 1 Quiz

### 1.1 Questions

1. Expand ECCS.
2. Which one of the following is not a primary role of ECCS?
  - (a) provide cooling to the core in case of an accident
  - (b) maintain reactor in shutdown condition following an accident
  - (c) to generate power for running the backup systems
3. What is the source of power supply for pumps in ECCS of PWR?
4. When High Pressure Injection System of PWR is activated, which one of the following is supplied to the core?
  - (a) water
  - (b) heavy water
  - (c) borated water
  - (d) water+heavy water
5. What is RWST?
6. Which one of the following is a passive component of ECCS in PWR?
  - (a) High pressure injection system
  - (b) low pressure injection system
  - (c) accumulator system
  - (d) moderator system
7. What is ADS?
8. How are low-pressure coolant injection pumps operated?
9. What is the pressure at which LPCI of BWR is activated?

### 1.2 Answers

1. Emergency Core Cooling System
2. (c) to generate power for running the backup systems
3. Diesel generators
4. (c) borated water
5. Refueling Water Storage Tank
6. (c) accumulator system

7. Automatic Depressurization System

8. Using diesel generators

9. 32 atm