



## **Question Bank**

### **Lecture -3-**

## **Composition of Concrete**

### **Part 1: Definitions**

1. Define concrete and list its main components.
2. What is cement and what role does it play in concrete?
3. Define admixtures and explain their purpose in concrete mixtures.
4. Define fine aggregate and coarse aggregate.
5. Define the term 'hydration' in the context of cement and water reaction.

### **Part 2: Comparisons**

1. Compare fine aggregate and coarse aggregate in terms of size and function.
2. Compare Ordinary Portland Cement (OPC) and Rapid Hardening Cement.
3. Differentiate between water and admixtures in concrete.
4. Compare gravel and crushed stone as coarse aggregates.
5. Contrast the roles of plasticizers and retarders in concrete mixtures.

### **Part 3: Fill in the Blanks**

1. Concrete is a \_\_\_\_ material made by mixing cement, water, sand, and aggregates.
2. \_\_\_\_ is the chemical reaction between cement and water that causes hardening.
3. \_\_\_\_ aggregates pass through a 4.75 mm sieve and improve workability.
4. \_\_\_\_ admixtures speed up the setting and early strength development of concrete.
5. \_\_\_\_ cement is commonly used for general construction works.