

# CONCRETE TECHNOLOGY LAB

## VIVA QUESTIONS

### **SPECIFIC GRAVITY OF CEMENT:**

i. **Define:** Specific gravity. The ratio between weight of volume in cement and equal weight of volume in kerosene. (same for Specific gravity of aggregate)

ii. **What are the limitations of this test?**

The average specific gravity of aggregate limitation is 2.6-2.8

### **SLUMP CONE TEST:**

i. **What are the uses of this test?**

- Consistency of concrete,
- With out segregation of concrete,
- Should not be a bleeding.

ii. **What are the purpose of this test?**

To check the Consistency of concrete.

iii. **What are the different type of slump?**

- True slump.
- , → Shear slump,
- Collapse slump

. iv. **What is meant by true slump?**

The concrete level is even..

v. **What is meant by shear slump?**

The level of concrete is 1.5 side down.

### **CONSISTENCY OF CEMENT:**

i. **What is the size of plunger?**

Diameter: 10mm, Length: 50mm,

ii. **What is the purpose of this test?**

Water required for to make a cement paste

. iii. **What are the limitations of this test?**

The limitation of standard consistency of plunger penetrate depth is 33-35mm. For certain percentage of water content.

iv. **Define: Consistency.** The property of holding together and retaining shape.

v. **What are the uses of in this test?**

- To find the correct quantity of water,
- Make correct level of paste.
- With out segregation.

**SETTING TIME OF CEMENT:**

**i. What is the equipment used in this experiment?**

Vicat's apparatus.

**ii. What is the meant by initial setting time?**

To start the time of set for cement.If the case is after mixing of mortar.The initial setting time is 30 minute.

**iii. What is the meant by final setting time?**

To final stage of set for cement.If the case is after mixing of mortar.The final setting time is 600 minute.

**iv. What is the tools are used in this experiments?**

Initial: Needle, Final: Plunger.