



WEEKLY HOME STUDY PACKAGE - WEEK 2 (12/07/21 – 16/07/21)

Subject : Applied Technology Year -11

Strand	Engineering Material
Sub Strand	Concrete
Content Learning Outcome	<ul style="list-style-type: none">• Understand the difference between concrete and cement• Identifying the methods of mixing and doing slump test.

SOLUTION**(7 marks)**

1. Define concrete

Concrete is a construction material composed of cement, fine aggregates (sand) and coarse aggregates mixed with water which hardens with time.

(1 mark)

2. What does aggregate consist of?

Aggregate consists of stone material for example, gravel (coarse aggregate) and sand (fine aggregate).

(1 mark)

3. What is the difference between concrete and cement?

Concrete is a construction material composed of cement, fine aggregates (sand) and coarse aggregates mixed with water which hardens with time and cement is a material in powder.

(1 mark)

4. What does the ratio of mixing concrete 1:2:4 mean?

- 1 Measure of cement
- 2 Measures of sand
- 4 measures of coarse aggregate

(1 mark)

5. State two methods of mixing concrete.

Mixing by hand and mixing by machines.

(1 mark)

6. Name the method of testing concrete.

Slump test

(1 mark)

7. What is the purpose of slump test?

It measures the consistency of the concrete.

(1 mark)