**Assignments For Weak Students**

*Assignment -1*

Subject:- RRS(5CE5-14)

Q.1 Write a definition-

a. Repair

b. Rehabilitation

c. Maintenance

Q.2 What are the causes of deterioration?

Q.3 Define physical inspection of damaged structure.

Q.4 What are the steps in selecting a repair procedure?

*Assignment -2*

Q.1 Write short notes any four causes of cracks?

 a.Use of unsound material

 b. Poor & bad workmanship

 c. Use of high water-cement ratio

 d. Freezing & thawing

 e. Thermal effects

 f. Shrinkage stresses

Q.2 Write the methods of corrosion protection?

Q.3 List out some coating for reinforcement to prevent corrosion?

*Assignment -3*

Q.1. Describe importance of NDT in building material assessment?

Q.2 Explain the procedure of Rebound Hammer test and draw a net sketch?

Q.3 Explain the following?

(A) Half Cell Potential method

(B) Corrosion Meter

(C) Core Cutting method

(D) Rebar Locater

Q.4. Describe ‘Penetration Resistance’ test and its utility.

*Assignment -4*

1. Define the following terms.

a. Polymer

b. Resin

c. Grouting

d. Jacketing

e. FRP

f. Self curing compounds.

2. Explain the material, advantages and applications of FRP and ferro-cement.

3. Write a short note on :- A case study of rehabilitation of dam.

4. Write short notes on:

(a) Shot Crete

(b) Jacketing

(c) Under water repair

(d) Externally bonded plates

5. Discuss properties and selection criteria polymer and resins.