

**BRANCH : CIVIL ENGINEERING**

**SEMESTER : 3<sup>rd</sup>**

**Assignment-1**

**Foundations & Setting Out work**

1. Explain in brief Sub-surface investigation and its methods.
2. What are the causes of failure of foundation ? What remedial measures would you adopt ?
3. Classify various types of piles based on : (i) Function (ii) Material and Composition.
4. What is a pneumatic caisson? Where is it adopted? How is it constructed?

**Assignment-2**

**MASONRY CONSTRUCTION**

5. What are the various types of stone masonry? Describe various types of rubble masonry with sketches.
6. Describe English bond. What are the essential features of it? Draw the isometric view of English bond.
7. Enlist type of lintels and explain R.C.C. lintel with sketch.
8. Write a short note on (1) Pointing (2) Plastering

**Assignment-3**

**PLAIN AND REINFORCED CONCRETE CONSTRUCTION**

9. Explain about pre-cast and cast-in situ construction.
10. Explain formwork for big arches.

**Assignment-4**

**DOORS AND WINDOWS**

11. Explain in brief various types of doors.
12. Explain in brief various types of windows.
13. What are the factors affecting the selection of size, shape, location and number of windows in room.

**Assignment-5**

**STAIRS AND STAIRCASES**

14. Define stair, Draw the detailed sketch of a stair, label and define the various parts.

**Assignment-6**

**FLOORINGS**

15. Explain factors that affect the choice of a flooring material.
16. Explain about timber flooring.

**Assignment-7**

**ROOFS AND ROOF COVERINGS**

17. Define roof. Describe briefly the essential requirement of a good roof.
18. Define the following terms in relation to roof (1)Ridge (2) Valley (3) Eaves (4) Common rafter (5) Purlin (6) Cleat (7) Gable

**Assignment-8**

**SPECIAL WORKS**

19. Enlist various methods of demolition and explain any two in detail.
20. What is cofferdam? Enlist common types of cofferdams.
21. Enlist various methods of ground water control. Discuss any two methods with neat diagrams.
22. Enlist various methods of demolition and explain any two in detail.
23. Enlist types of scaffoldings.

**Assignment-9**

**SPECIAL TREATMENTS & GREEN BUILDING**

24. Explain in brief, common acoustical defects and suggest the remedial measures.
25. Explain how post-construction anti-termite treatment is carried out.
26. Write down the principles of green buildings and discuss its concept.