

Advance Construction - X20602

(2nd Sem Civil PDDC 2013)

Topic Wise Important Question for Exam. Preparation

Note : Syllabus of Topic no 1 to 5 will be covered for Mid Sem. Examination.

1. Pile Foundations

1. Explain uses of (or necessity) of pile foundations.
2. Explain factors affecting the selection of type of piles.
3. Explain about precast concrete piles with neat sketch.
4. Enlist and explain the uncased cast-in-situ concrete piles with neat sketches of each.
5. Explain about pile load test with neat sketch.

2. Cofferdams

1. Enlist common types of cofferdam.
2. Write a short note on economic height of cofferdam.
3. List the forces considered in design of a cofferdam.
4. State the factors which influence the choice of a particular type of cofferdam.
5. Explain the design feature of cofferdams. How will you prevent leakage in it?

3. Caissons

1. What is a Caisson? Write uses of Caissons.
2. Explain about floating of caissons.
3. Explain problem in well sinking.
4. Write short note on : a) Box Caisson b) Pneumatic Caisson c) Well Caisson

4. Control of Ground Water in Excavations

1. What is dewatering?
2. Short note on deep well system (or bored well system).
3. Explain about vacuum system.
4. Describe method of well point system for dewatering of foundation soils.

5. Temporary Work

1. What is temporary structure? Explain requirement of good formwork.
2. What are the design feature are consider in temporary works.
3. Explain about failure of formwork.
4. Short note on centering of big arches.
5. Explain about slip formwork.

6. Construction of Earthquake Resistant Building

1. Explain with sketch beam jacketing and column jacketing.
2. Give suggestion for construction of new masonry building in earthquake sensitive area.
3. Explain repair, restoration and retrofitting.
4. Discuss planning of earthquake resistant building.
5. What is base isolation? Explain various methods of base isolation?

7. Special Structures

1. Discuss important point to be considered while constructing tall structures.
2. What is Pre Stressing? Explain Concept of Pre Stressing.
3. Explain Pre-Tensioning and Post-Tensioning with Sketches.
4. Discuss important point to be considered while constructing spatial structures.

8. Demolitions of Structures

1. Describes in brief, the various methods of demolition.
2. Explain Implosion technology of demolition.
3. Explain protection measures to public during demolition.

9. Construction Equipment and Plants

1. Explain by drawing sketch working of Power Shovel.
2. Explain working of Tower Crane and Belt Conveyers.
3. Explain factors affecting selection of construction equipments.
4. Draw a neat sketch of Dragline and explain its uses and working.
5. What are the different drilling equipments explain briefly.