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## MVCT/MBCT/MVCP-104

## M.E./M.Tech. I Semester

Examination, December 2016

## Construction Technology

Time: Three Hours

Maximum Marks: 70

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Note: i) Answer any five questions.

- ii) All questions carry equal marks.
- 1. a) Why formwork is necessary? Explain the requirements of formwork. Which are the materials used for preparing formwork?
  - What is slip formwork? Explain their operation, uses, and advantages.
  - Briefly explain the process of electro-osmosis for dewatering the foundation trenches.
- Explain the various equipment's used for the construction of high rise building make a neat sketch of any two of the Hauling Equipment's/earthmoving machine/hoisting equipment.
- 3. a) What is pretension concrete? Where it is used and why?
  - Define two types of prestressing system mention their advantages and disadvantages.

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- 4. Write a short notes on the following:
  - a) Non-displacement piles
  - b) Special pretensioning techniques
  - c) Internal and external prestressing steel
  - d) Disposal of spoils and its balancing
- a) What are the advantages and disadvantages of shop and insitu steel construction.

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- b) Explain the erection process of truss.
- 6. a) Describe the construction of High rise building.
  - b) What is the importance of clearances and tolerances?
- a) Discuss various safety measures adopted in construction work.
  - Describe some advanced techniques used in construction of dam.
- a) Explain in details the slip form techniques for the construction of bridge.
  - b) Explain in details stripping and removal of formwork.

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