

Course:- MCE-111 Construction Methods and Equipment

Assignment No: II

Submission Date: 07 December 2016

Instructions:

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your name ,programme and enrollment number clearly at the top of the Pages

Q.1

- (a) Write in detail about Performance Characteristics of Dozers.
- (b) What do you mean by Mobile Equipment Power Requirements?

Q.2

- (a) What are the requirements of Concrete and Concrete Equipment?
- (b) Write a short note on -
 - i. Batching of Concrete
 - ii. Placing of Concrete.

Course:- MCE-112- Infrastructure Valuation

Assignment No: II

Submission Date: 07 December 2016

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Q.1

- (a) What do you mean by Function Analysis System Technique?
- (b) Write the definition of the creative and structured phases of value engineering.

Q.2

- (a) Write in detail about Forced Distribution Technique.
- (b) Write the short note on-
 - i. Break-even Analysis
 - ii. Life Cycle Cost (LCC).

Course:- MCE-113- Neo Construction Material
Assignment No: II
Submission Date: 07 December 2016

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Q.1

- (a) Write in detail about Influence of fly ash on the corrosion steel bar in concrete.
- (b) What do you mean by Industrial waste materials in concrete Rapid wall panels?

Q.2

- (a) What is the effect of size aggregate on the strength properties of LWAC made with palm oil shells?
- (b) Write about following terms-
 - i. Natural fiber reinforced concrete
 - ii. Polymer Fiber Reinforced Concrete.

Course:- MCE-114 Structural Health Monitoring

Assignment No: II

Submission Date: 07 December 2016

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Q.1

- (a) Write in detail about ambient vibration tests.
- (b) What do you mean by Dynamic response methods?

Q.2

- (a) What is the process of Remote data acquisition systems.
- (b) Write about following terms-
 - i. Networking of sensor
 - ii. Periodic and continuous monitoring.

Course: MCE-115-Tall Structure

Assignment No: II

Submission Date: 07 December 2016

Instructions:

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Q.1

- a) Write in detail about Codal wind loads and cladding pressures on behavior of tall buildings.
- b) What do you mean by Tall building behavior during earthquakes and seismic design philosophy?

Q.2

- a) Write in detail about various structural forms and their importance to high rise architecture.
- b) Write the short note on-
 - i. Flooring Systems in concrete & steel
 - ii. Reduction techniques.