

**B. Tech Degree IV Semester Examination, April 2010**

**CE 406 A/B CONSTRUCTION ENGINEERING AND MANAGEMENT I**  
(2006 Scheme)

Time : 3 Hours

Maximum Marks : 100

**PART- A**  
(Answer ALL questions )

(8 x 5 = 40)

- I. (a) What is scaffolding? What are its uses?  
 (b) What are the requirements of a good formwork?  
 (c) What are the functions of banks?  
 (d) What is macro economics approach of national income?  
 (e) What are the characteristics of an organisation?  
 (f) What is delegation of authority?  
 (g) What are the functions of materials management?  
 (h) Derive an expression for Economic Order Quantity.

**PART – B**

(4 x 15 = 60)

- II. (a) What is shoring? Explain the different types of shoring? (9)  
 (b) What is under pinning? Explain the conditions in which underpinning becomes necessary. (6)
- OR**
- III. (a) What are the properties of timbers used in the formwork? (6)  
 (b) Explain the design features of the formwork for beams. (9)

- IV. What are the different methods of calculation of national income? Explain any three. (15)

**OR**

- V. Write notes on :  
 (i) demand and supply  
 (ii) factors of production  
 (iii) elasticity of demand (3 x 5 = 15)

- VI. Which are the different types of organisation? Explain any three. (15)

**OR**

- VII. (a) Explain centralization and decentralization in management concept. (7)  
 (b) Explain the terms organizational conflict and group dynamics. (8)

- VIII. What is ABC analysis? Explain the steps in the ABC analysis. (15)

**OR**

- IX. (a) Explain simple EOQ model and EOQ models with stock out. (7)  
 (b) Find the EOQ from the data given below. (8)
- |                         |   |                                |
|-------------------------|---|--------------------------------|
| Average monthly demand  | - | 3500 units                     |
| Inventory carrying cost | - | 15% of the unit value per year |
| Cost of ordering        | - | Rs.200/- per order             |
| Unit cost               | - | Rs.10/-                        |

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