

DEPARTMENT OF CIVIL ENGINEERING: IIT DELHI

CEL 766: Systems Design and Value Analysis

2006-2007

MAJOR TEST

Time: 90 Minutes

1. (a) What is cost modeling? How it can be used in Value Engg. ?
(b) Using the numerical evaluation technique identify the basic function of 'roofing'.
(c) Draw the 'FAST' diagram for any one of the following:
 - (i) Postal Service
 - (ii) Material Procurement
2. Write short notes on the following:
 - (i) Systems problem and its characteristics
 - (ii) Steps involved in systems design
 - (iii) Improvement of traditional building procedure through Systems Design approach.
3. (a) What is work sampling? What are its advantages?
(b) What are basic principles of methods design?
(c) Explain the basic steps involved in the 'Work Design' approach.