DEPARTMENT OF CIVIL ENGINEERING: IIT DELHI CEL 766: Systems Design and Value Analysis

2007-2008 MAJOR TEST Time: 90 minutes

All questions carry equal marks

- 1. (a) Is the basic function of an item always fixed? Or can it change? Illustrate.
 - (b) Using numerical evaluation technique express your preference for the following fruits: Banana, Apple, Organe, Pear and Avocado.
 - (c) Draw FAST diagram for any one of the following:
 - (i) Road Construction
 - (ii) Health Service
- 2. Write short notes on the following:
 - (i) Basic principles of Methods Design
 - (ii) Objectives of work measurement program
 - (iii) Work Design principles
- 3. (a) Define systems problem and give the characteristics of such a problem with an example.
 - (b) How do you justify that the construction contracting is a systems problems?
 - (c) Describe the procedure adopted in Systems Design.