

B.Tech. Degree V Semester Examination, November 2008

CE 506 A/B CONSTRUCTION ENGINEERING & MANAGEMENT (2006 Scheme)

Time: 3 Hours

Maximum Marks: 100

PART A

(Answer ALL questions)

(8 x 5 = 40)

- I
- a) Write short notes on Principles of Valuation of construction equipment.
 - b) Explain briefly the working of tractors.
 - c) What are the factors affecting selection of equipment?
 - d) Explain main objectives of Construction Management.
 - e) What are mile stone charts?
 - f) Write a note on types of dump trucks and their uses.
 - g) Write a detailed note on the methods increasing productivity.
 - h) What are the objectives of network planning and scheduling technique?

PART B

(All questions carry EQUAL Marks)

(4 x 15 = 60)

- II
- Discuss the appropriate uses of the following machinery in construction projects.
- i) Tractor loader
 - ii) Power shovel
 - iii) Dragline
 - iv) Fork truck.

OR

- III
- Write a detailed note on the belt conveyor systems used in construction industry.

- IV
- Explain in details the different types of tunneling and rock drilling equipments.

OR

- V
- Give a schematic layout for a typical aggregate processing plant for a large concrete Construction project and explain its operation.

- VI
- What is a bar chart? What are its advantages and limitations?

OR

- VII
- Write short notes on

- (i) Material schedule
- (ii) Labour schedule
- (iii) Equipment schedule
- (iv) Financial schedule

- VIII
- i) What is CPM?
 - ii) Indicate the application of CPM in the construction of a multistoried flat apartment.

OR

- IX
- State the basic concepts of the PERT method and the terminology used for different activity times. How does the PERT method differ from the Critical Path Method?

