[5254]-20

B.E. (Civil)
CONSTRUCTION MANAGEMENT
(2008 Pattern) (Elective - III)

Time : 3 Hours]   *[Max. Marks : 100*

Instructions to the candidates:
  1) *Answers to the two sections should be written in separate books.*
  2) *Neat diagrams must be drawn wherever necessary.*
  3) *Assume suitable data, if necessary.*

SECTION - I

Q1) a) Discuss the importance of communication and coordination between client, consultant and contractor for a construction site. Explain with suitable examples. **[10]**

b) Explain the role of project management consultant in commercial housing project. **[8]**

OR

Q2) a) Explain in detail the role of various components of infrastructural sector of Indian construction Industry in Economics development. **[10]**

b) Explain in detail project reporting system taking an example of commercial housing project. **[8]**

Q3) a) What is the role of scheduling in any construction project and list out factors affecting the scheduling? **[8]**

b) List-out an importance of Work Breakdown Structure (WBS). Draw and explain the different WBS levels for pre-stressed Bridge Project. **[8]**

OR

Q4) a) Enlist type of annuity with appropriate application of each annuity. **[8]**

b) Write a short note on 'Repetitive Scheduling Methods'. **[8]**

Q5) a) Write a note on : [8]

      i) Interstate Migrant Worker Act.

      ii) Child labor act.

    b) Write about project balance sheet with an example in construction project.

                                                                   [8]

OR

Q6) a) Write a note on working capital and explain the following term. [8]

      i) Term loan

      ii) Debentures

      iii) Deferred credit

    b) Foreign Direct Investment (FDI) is playing a major role in infrastructure development in India. State your views on the same. [8]

SECTION - II

Q7) a) Write about 'Break Even Analysis' give suitable example on township project of ten story, twenty towers. Each story contains four flats. [10]

    b) Explain the role of infrastructure in construction management. [8]

OR

Q8) a) Write short note on : [8]

      i) Risk Mitigation

      ii) Quantitative Risk analysis

    b) Explain the concept of value and applicability of value analysis in construction industry with suitable example. [10]

Q9) a) Define Supply Chain Management (SCM). Explain SCM in context with construction material management. [8]

    b) What is a job plan? Explain in detail phases in the job plan. [8]

*Q10)*a) Write a short note on : **[8]**

      i) Inventory management.

      ii) EOQ

    b) Describe human resource management process with suitable example.**[8]**

*Q11)*a) Describe application of fuzzy logic in construction industry. **[8]**

    b) Explain the analogy between Biological neuron & Artificial neuron. **[8]**

<div align="center">OR</div>

*Q12)*a) What is an Expert system? How Artificial Intelligence is useful in the development of Expert system. Explain with suitable example. **[8]**

    b) Describe importance of Genetic algorithm tool in construction industry. **[8]**

<div align="center">● ● ●</div>