**P3871**

**[5561]-522**

**B.E. (Civil)**

# CONSTRUCTION MANAGEMENT

## (2015 Pattern) (End Semester) (Semester - II) (Elective - IV) (401010A)

*Time : 2½ Hours]*        *[Max. Marks : 70*

*Instructions to the candidates:*

1) *Answer any one from questions 1 or 2, 3 or 4, 5 or 6, 7 or 8, 9 or 10.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right side indicate full marks.*
4) *Assume Suitable data if necessary.*

*Q1)* a) Explain the Selection and appointment process of Project Management Consultant. **[5]**

    b) Explain Line of balance technique with suitable example. **[5]**

**OR**

*Q2)* a) Explain the role of Infrastructure development in Employment generation. **[5]**

    b) Explain Importance and Difficulties in Capital Investments. **[5]**

*Q3)* a) Explain the need and importance of labour laws in construction industry. **[5]**

    b) Explain Building and other construction workers act 1996. **[5]**

**OR**

*Q4)* a) Explain the Objectives of Work measurement and Work Study. **[5]**

    b) Explain the Profit loss statement with suitable example. **[5]**

*Q5)* a) Explain Sensitivity analysis and Decision tree analysis. **[8]**

    b) Explain the Energy cost escalation and its impacts. **[8]**

**OR**

*Q6)* a) Explain Value engineering and Value management. **[8]**

    b) How mathematical model will be useful in risk management. **[8]**

*P.T.O.*

*Q7)* a) Write short note on: Buyers supply relationship, EOQ Model. **[10]**

b) Explain the Importance of Human Resource management in Construction industry. **[8]**

OR

*Q8)* a) Explain the role of ERP in Material Management. **[8]**

b) Explain Job Evaluation and Performance appraisal. **[10]**

*Q9)* a) Explain with example "Artificial Neural Network". **[8]**

b) What do you mean by Fuzzy Logic? State its applications in civil engineering. **[8]**

OR

*Q10)*a) Explain ANN & applications in civil engineering. **[8]**

b) Explain Genetic Algorithm with suitable example. **[8]**

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