

Total No. of Questions : 10]

P3871

[5561]-522

B.E. (Civil)

SEAT No. :

[Total No. of Pages : 2

**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]

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- 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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