[5254] -521
B.E. (Civil) (Semester - II)
CONSTRUCTION MANAGEMENT
(2012 Pattern)

Time : 2½ Hours]　　　　　　　　　　　　　　　　　　　*[Max. Marks :70*
Instructions to the candidates:

　　1)　*Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10, Q.11 or Q.12*

　　2)　*Neat diagrams must be drawn wherever necessary.*

　　3)　*Figures to the right indicate full marks.*

　　4)　*Assume suitable data if necessary.*

Q1) Discuss in detail various components of infrastructure sector.　　　**[6]**

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

Q2) Write short note on work break down structure.　　　**[6]**

Q3) Write short note on :　　　**[8]**

　　a)　Line of balancing technique

　　b)　Repetitive project management.

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

Q4) Write short note on :　　　**[8]**

　　a)　factors affecting project schedule

　　b)　Importance of balance sheet.

Q5) Explain in detail need and importance of labour laws.　　　**[6]**

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

Q6) Discuss the various provisions of interstate migrant workers act　　　**[6]**

<div align="right">***P.T.O.***</div>

Q7) a) What is Risk Management? Explain in detail various risks in construction.**[6]**

b) Write short note on Sensitivity analysis. **[6]**

c) Define 'Value'. Explain importance of value analysis in construction sector. **[6]**

OR

Q8) a) What are methods of Risk Management? Explain any one in detail. **[6]**

b) Discuss the role of insurance in risk management. **[6]**

c) What is energy cost escalation? What is its impact on any infrastructure project? **[6]**

Q9) a) Explain in detail role of ERP in materials management. **[6]**

b) What is supply chain management. State its importance in construction sector. **[6]**

c) Write short note on : importance HRM in construction industry. **[4]**

OR

Q10) a) A construction company requires 1500 door frames per year. Cost of each door frame is Rs. 2000. Ordering cost is Rs. 2200 per order and holding cost is 18%. Calculate EOQ. **[6]**

b) Write short note on : Material Resource Information system. **[6]**

c) What is meant by performance Appraisal? State the importance of it.**[4]**

Q11) a) What is an expert system? Write down the applications of expert system in construction. **[8]**

b) What is ANN? Explain. Write down the applications of artificial intelligence in construction management? **[8]**

OR

Q12) a) Define Artificial Intelligence (AI) and write down applications of AI in Civil engineering. **[8]**

b) What do you mean by fuggy logic? State various application of fuggy logic in civil engineering. **[8]**

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