[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]**

OR

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.

OR

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]**

OR

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

P.T.O.

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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