

Total No. of Questions : 12]

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SEAT No. :

[Total No. of Pages : 2

[5154]-521

B.E. (Civil)

**CONSTRUCTION MANAGEMENT (Elective - IV)
(2012 Course) (Semester - II) (End Sem.) (401010A)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10, Q11 or Q12.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume Suitable data, if necessary.*

Q1) Write a note on Project monitoring & Reporting System. [6]

OR

Q2) Explain in detail purpose of construction scheduling. [6]

Q3) Define. Prepare WBS for the construction of bridge across river. [8]

OR

Q4) Write short note on: [8]

- a) Application of LOB.
- b) Work study.

Q5) Explain in detail Building & other Construction Worker's act 1996. [6]

OR

Q6) Discuss the importance of child labour act in construction sector. [6]

Q7) a) What are the different types of risks involved in any road project. [6]

b) Write short note on: Break Even Analysis. [6]

c) Discuss in detail the concept of risk mitigation. [6]

OR

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- Q8)** a) Write short note on: Risk control. [6]
b) Discuss in detail decision tree analysis. [6]
c) Write short note on: Value Management. [6]

- Q9)** a) Discuss the role of materials management. [6]
b) What are the aim & objective of career planning. [6]
c) Discuss the importance of vendor networking in construction projects. [4]

OR

- Q10)** a) A supplier has to supply 500 units of a commodity to his client every week. The cost rate is Rs. 200 per unit and ordering cost is Rs. 200 per order. The carrying cost of inventory is 20% per year of the cost of inventory. Find Economical order quantity. [6]
b) Explain the importance of buyer seller relationship in civil engineering projects. [6]
c) Write short note on: Human Resource Information System. [4]

- Q11)** a) Explain the term artificial intelligence. Discuss its benefits to construction sector. [8]
b) What do you mean by genetic algorithm? Explain with suitable example. [8]

OR

- Q12)** a) Explain with example importance of ANN in construction management. [8]
b) What do you mean by fuzzy logic? State various application of fuzzy logic in civil engineering. [8]

