

Total No. of Questions : 10]

SEAT No. :

P3982

[4959]-1021

[Total No. of Pages :2

B.E.(Civil)

CONSTRUCTION MANAGEMENT

(2012 Course)(End Sem)(Elective-IV) (Semester-II) (401010)

Time :2½Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q1 or Q2,Q3or Q4, Q5 or Q6 , Q 7 orQ 8, Q 9 or Q10.*
- 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) Infrastructure development in india has contributed majorly in the country's economic transformation and growth during the last decade. Justify the statement [5]

b) Draw a work break down structure for road project [5]

OR

Q2) a) Discuss in detail various factors affecting project scheduling [5]

b) Write short note on: Balance sheet [5]

Q3) a) Explain the term "Project Management Consultancy" [5]

b) What are the objectives of Method study [5]

OR

Q4) a) Discuss the various aspects of Building & Other construction workers act 1996 [5]

b) Write short note on: Need of working capital [5]

Q5) a) What are the various steps involved in mitigation of risk [6]

b) Explain in details value analysis procedure [6]

c) What are the various application of value engineering in construction sector [6]

OR

P.T.O.

- Q6)** a) Write short note on: [8]
i) Simulation Analysis
ii) Decision tree analysis
- b) Discuss in detail Renewable & Non Renewable energy sources. [6]
c) What are the various advantages of value analysis. [4]
- Q7)** a) What are the objectives of material management [6]
b) A construction company purchases 10,000 bags of cement annually. Each bag of cement cost Rs.350/- and cost incurred in procuring each lot is Rs. 100/-. The cost of carrying is 25%. Find EOQ. [6]
c) Discuss in detail objectives of performance appraisal. [4]

OR

- Q8)** a) Write short note on: [8]
i) Classification of Materials
ii) Codification of Materials
- b) Define the term staffing. What are the various internal factors affecting staffing. [4]
c) Explain the need of Human Resource development in construction project. [4]
- Q9)** a) Explain in detail importance of artificial intelligence in infrastructure projects [6]
b) Define neural network. What is forward and backward propagation in ANN? [6]
c) What are the applications of fuzzy logic [4]

OR

- Q10)**a) Write short note on: Genetic Algorithm [6]
b) Explain the concept of biological neural networks. [6]
c) What is an expert system? Write down the applications of expert system in construction. [4]

