P3982

[4959]-1021

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]**

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

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]**

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

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]**

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

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]**

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