[4760]-48

M.E. (Civil-Structures)
MANAGEMENT IN STRUCTURAL ENGINEERING
(2008 Course) (Semester-II)

Time : 4 Hours]   *[Max. Marks : 100*

Instructions to the candidates:
   1)   Answers any two questions from each section.
   2)   Answers to the two sections should be written in separate books.
   3)   Figures to the right side indicate full marks.
   4)   Neat diagrams must be drawn wherever necessary.
   5)   Use of electronic pocket calculator is allowed.
   6)   Assume Suitable data, if necessary.

SECTION-I

Q1) a) Differentiate time study and motion study on the basis of concept and application. **[10]**

b) Explain the concept of interpersonal behavior. **[5]**

c) What are the functions of finance management? Also explain the key activities of finance manager. **[10]**

Q2) a) What are the principles advocated by ISO for maintaining the quality.**[9]**

b) Explain, in detail, the working of fire extinguisher. **[8]**

c) Explain the factors affecting durability of concrete. **[8]**

Q3) a) Explain the working principle of: **[15]**

   i)   Hammer test

   ii)   Ultrasonic pulse velocity method.

   iii) Half cell electric potential test.

b) Enlist the parameters to be included in structural audit report. **[5]**

c) Discuss the applications of stuctural audit report. **[5]**

SECTION-II

Q4) a) Differentiate between retrofitting, restoration and rehabilitation. **[5]**

b) Explain the different chemical based methods used for restoration. **[10]**

c) Write specifications for: **[10]**

    i) RCC jacketing.

    ii) sealing of honeycombed areas with cement mortar.

    iii) shear wall.

Q5) a) Differentiate between jump form and slip form. **[8]**

b) Explain the different methods adopted for construction safety. **[9]**

c) Explain the different methods of material handling. **[8]**

Q6) Write short note on : **[25]**

    a) Planning and execution of demolition.

    b) Recycling of demolition waste.

    c) Role of structural drawings in demolition of structure.

    d) Method of implosion.

    e) Demolition plan.

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