

Total No. of Questions : 6]

SEAT No. :

P4666

[Total No. of Pages : 3

[4860]-47

M.E. (Civil Structures)

MANAGEMENT IN STRUCTURAL ENGINEERING

(2008 Pattern) (Semester - II)

Time : 4 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) Solve any two questions from each section.*
- 2) Answers to the two sections should be written in separate answer books.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) Figures to the right side indicate full marks.*
- 5) Assume suitable data if necessary.*

SECTION - I

- Q1)** a) What are the resources for building construction and explain briefly the role of resource management in planning and controlling productivity. [7]
- b) What do you mean by logistic management? [6]
- c) Write short note on selecting construction equipment. [6]
- d) Write a short note on recruitment. [6]
- Q2)** a) Explain the causes of inadequate durability. [7]
- b) Explain in brief (any two) [10]
- i) Corrosion in structures
- ii) Quality control of materials of structures
- iii) Fire safety
- c) Explain the concept of T. Q. M. [8]

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- Q3)** a) Explain the carbonation depth measurement test. [7]
b) List out the information required to be collected after visual inspection of distressed structure. [6]
c) Compare health monitoring and structural audit. [6]
d) State and explain different methods of NDT. [6]

SECTION - II

- Q4)** a) What are the requirements of structural detailing? Also explain structural detailing for restoration. [10]
b) Define [7]
i) Adhesions
ii) Cross-linking agents
iii) Catalyst
iv) Latex
c) Explain with sketches [8]
i) Base isolation techniques
ii) Jacketing to the structural members.
- Q5)** a) Explain the structural aspects for form work in building. [7]
b) Explain the design of form work with following points. [10]
i) Load on form work
ii) Design criteria
iii) Design procedure
c) Write short notes on [8]
i) Safety precautions working at height
ii) Material handling and stacking

Q6) Write short notes on (any five) :

[25]

- a) Planning and executing of demolition
- b) Role of structural drawing in demolition of structures.
- c) Recycling of demolished materials
- d) Demolition safety
- e) Saw technique of demolition wire
- f) Factors influencing on reuse of demolished material
- g) Method of implosion.

