

EA-54

UITians

B.E. (IVth Sem.) CGPA Examination-2011

CONCRETE TECHNOLOGY

Paper - CE-401

Time Allowed : Three Hours

Maximum Marks : 60

Note : Attempt all the six questions.

There is internal choice in each question.

Q.1 What are the different properties of cement concrete ?
Write its advantages and disadvantages.

or

Q.2 Define cement and its types. Write brief note on each one.

Q.3 Describe in detail proportions of fresh as well as hardened concrete.

or

(a) How will you determine the compressive strength of cement concrete ?

(b) Define thermal properties of concrete.

EA-54

P.T.O.

Q.III Explain in detail IS code method of design of concrete mix. 10

or

~~Q.IV~~ Describe various factors influencing mix design. 10

Q.IV How is concreting performed under water ? Explain briefly. 10

or

Write brief notes on the following— 5 each

(a) Quality control of concrete → 9

(b) Inspection of testing of concrete → 4 2 2

Q.V What do you understand by a light weight concrete ? Describe its properties and uses. 10

or

What are polymer concrete composites ? Describe any two in details. → 5 3 2

Q.VI Write short notes on the following— 5 x 2 = 10

~~(a) Shotcrete~~

~~(b) Repairs technology for concrete structures~~

~~(c) Computer aided design of concrete mix~~

~~(d) Rheology of Concrete~~

Shivani