

EK-326

B.E. (IVth Sem.) (CGPA) Civil Engg. Examination-2016

CONCRETE TECHNOLOGY

Paper - CE - 401

Time Allowed : Three Hours

Maximum Marks : 60

Note : Attempt all questions.
All questions carry equal marks.

Q.I Explain the various types of cement with their specific uses. 12

OR

Describe the classification of concrete with their advantages & disadvantages. 12

Q.II Describe the term workability of concrete. Explain slump conc method of measuring the workability of concrete in detail. 12

OR

Explain :

- (i) Stress-strain characteristics of concrete. 4
- (ii) Factors affecting rheology of concrete 4
- (iii) Thermal properties of concrete. 4

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(2)

Q.III Mention the various methods of concrete mix design. Explain any one of them in detail. 12

OR

Write a detailed note on computer aided design of concrete mix. 12

Q.IV What are the effects of hot weather on concreting? Describe in brief. 12

OR

Explain :

(a) Non-destructive testing of concrete 6

(b) Concreting underwater 6

Q.V Write short notes on :

(a) Light weight concrete 4

(b) Vacuum concrete 4

(c) Prestressed concrete 4

OR

Explain :

(a) Ready mix concrete 4

(b) Shot crete 4

(c) Mass concrete 4

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