

B. Tech Degree VII Semester Examination, November 2009

CE 705 (B) ADVANCED CONSTRUCTION TECHNIQUES AND FIELD QUALITY CONTROL

(2002 Scheme)

Time : 3 Hours

Maximum Marks : 100

(All questions carry ***EQUAL*** marks)

- I. Light construction techniques enhanced the speed, economy and in materials and costs. Write an essay on the various techniques those enhance speed, economy in materials and costs.
- OR**
- II. Write brief essays on the following :
- (i) Prestressing techniques
 - (ii) Launching pre cast bridge girders
- III. Write a detailed essay on the soil reinforcement and application of geosynthetics in soil reinforcement.
- OR**
- IV. Write brief essays on the following :
- (i) Use of new construction chemicals
 - (ii) Ready mix concrete and pumping concrete.
- V. (a) What preparations are to be made before, during and after inspection of piling work?
(b) Prepare check lists for supervision of centering and concreting.
- OR**
- VI. Write brief notes on the following :
- (i) Underground works
 - (ii) Sanitary works
 - (iii) Records of inspection
 - (iv) Caissons.
- VII. State the main tests to be carried for road aggregates and explain any two methods of testing.
- OR**
- VIII. Write brief essays on the following :
- (i) MOST standards
 - (ii) CPWD standards.
- IX. State the main quality management principles as per the requirements of ISO 9000 and explain any two of them.
- OR**
- X. Write brief notes on the following :
- (i) Control of documents
 - (ii) Training standards
 - (iii) Non conformities
 - (iv) Quality policy.

