

**PAPER CODE: STR 13**

**Roll No**

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**M. Tech.**  
**COMPUTER AIDED DESIGN IN CIVIL ENGINEERING**  
**(SEMESTER- I) EXAMINATION, 2015-16**

**Time: 3 Hours**

**Total Marks: 100**

- Note:** (i) Attempt any five questions.  
(ii) Marks are indicated against each question.  
(iii) Assume any data suitably, if required.

1. Attempt any **TWO** parts of the following **10x2=20**
  - (a) Write a short note on different software used in civil engineering.
  - (b) Write a note on application of computer in civil engineering projects.
  - (c) Write a short on interactive programming.
  
2. Attempt any **TWO** parts of the following **10x2=20**
  - (a) What is flow chart? How it is useful in computer programming.
  - (b) Write the basic steps involved in preparing the program.
  - (c) Write a short note on sequencing ?
  
3. Attempt any **TWO** parts of the following. **10x2=20**
  - (a) Discuss the various stages involve in writing computer program.
  - (b) Write flow chart for design of a singly reinforced beam.
  - (c) Write a computer program for design of axially loaded column with ties.
  
4. Attempt any **TWO** parts of the following **10x2=20**
  - (a) Discuss the important feathers of STADD Pro. soft-wares in civil engineering.
  - (b) Write the steps for modeling of a framed structure building using STAAD Pro.
  - (c) Write the steps to be assigned in STAAD Pro for loading of live loads on slab.
  
5. Attempt any **TWO** parts of the following **10x2=20**
  - (a) Write the load combinations to be assigned for the design of a R.C.C. Framed structures including earthquake loading.
  - (b) Write the STADD Pro commands to be assigned for the design of concrete structure.
  - (c) Write the earthquake definitions used in STAAD Pro. for a school building to be designed in Delhi on soft soil.

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