

Total No. of printed pages = 2

CT-611/CM&M/6th Sem/2017/M

**CONSTRUCTION METHODS  
AND MACHINERY**

Full Marks – 70

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks  
for the questions.

Answer any *seven* questions.

1. (a) What are the need for construction economy ?  
Explain. 5
- (b) What are the various stages of construction  
of a building ? 5
2. What are the factors affecting a job-layout ? Draw  
a simple job-layout for a building project. 10
3. Explain how placing of concrete in cold and hot  
weather is done. 10
4. How quality of concrete can be controlled in a  
construction project ? 10

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5. Explain the following : 5+5=10
- (a) Riveted joints
  - (b) Welded joints.
6. What are the precautions to be taken during the construction of a multi-storeyed building ? 10
7. (a) What are those equipments commonly used in erection of steel structures ? 3
- (b) What is compressed air ? 2
- (c) Determine the final volume of  $30\text{m}^3$  of air when the gauge pressure is increased from  $0.2\text{ N/mm}^2$  to  $1.1\text{ N/mm}^2$ . There is no change in temperature and the barometer indicates at atmospheric pressure of  $0.1\text{ N/mm}^2$ . 5
8. (a) What are standard and special equipments ? 5
- (b) Explain any two earth compacting equipments. 5