

Total No. of printed pages = 2

CT-611/CM&M/6th Sem/2016/N

**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 management ? Explain. 5
- (b) What are the probable causes of excessive cost of construction of any project ? 5
2. What are the duties of an engineer and a contractor with respect to construction economy ? 10
3. What are the factors affecting a job-layout ? Draw a simple job-layout for a building project. 10

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4. Explain how placing of concrete in cold and hot weather is done. 10
5. How quality control of concrete be made in a construction project ? 10
6. (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 30m^3 of air when the gauge pressure is increased from 0.2 N/mm^2 to 1.1 N/mm^2 . There is no change in temperature and the barometer indicates at atmospheric pressure of 0.1 N/mm^2 . 5
7. What are the precautions to be taken during the construction of a multi-storeyed building ? 10
8. Explain the following : $2 \times 5 = 10$
- (a) Riveted joints.
- (b) Welded joints.