

**B.Tech. Civil (Construction Management) /
BTCLEVI**

**00765 Term-End Examination
December, 2014**

ET-523(A) : CONSTRUCTION WORKS SUPERVISION

Time : 3 hours

Maximum Marks : 70

Note : *Question no. 1 is compulsory. Attempt any four more questions from question no 2 to 7. Use of calculator is permitted. The answers shall be in your own language.*

1. Explain in brief (3 – 5 lines) : 7×2=14
- (a) Departmental method of construction
 - (b) Quick procedure of estimating
 - (c) Measurement book
 - (d) Item rate contract
 - (e) Site dairy
 - (f) Pile foundations
 - (g) Batching

2. (a) Discuss various types of drawings used in construction industry. 7
- (b) What are the qualifications and training required for a construction supervisor? 7
3. (a) Draw the format of a typical contract agreement. 7
- (b) Explain what do you understand by bills and payments. 7
4. (a) How is a register for cement consumption maintained? 7
- (b) Explain in brief the procedure for the maintenance of a register for the consumption of other materials. 7
5. (a) Explain 'filling' in earthwork. Explain the difference of techniques of consolidating filled soils that are cohesive and non-cohesive respectively. 7
- (b) Discuss briefly the construction procedure with brick masonry. 7
6. (a) What are the defects that may occur in formwork, in respect of vertical supports? 7
- (b) Discuss the procedures for testing and quality control of concrete construction. 7

7. Answer any *four* of the following :

$$4 \times 3 \frac{1}{2} = 14$$

- (a) Construction Supervisor's role in progress of work
 - (b) Measurements in construction work
 - (c) Check list in plumbing operations
 - (d) Compaction equipment
 - (e) Estimation on the basis of plinth area
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